

09/198, 779

<110> Bledig, Stefan A.  
Byrum, Joseph R.  
Liu, Jingdong

<120> Nucleic Acid Molecules And Other Molecules Associated With The  
Methionine Synthesis And Degradation Pathways

<130> 04983.0002.US01/38-21(15077)B

<140> 09/198,779

<141> 24-NOV-1998

<160> 3204

<210> 1

<211> 235

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1

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tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnca ggttcatcaa gaccgccgca 180
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<210> 2

<211> 313

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 2

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gtcggtagan cnagaagaan gcantngcgg ccganangtt ccttttcacn tcggagtccg 120
tgnannaggc gcancccgac aagctgtgcg accaggtgtc ggacgccgtg nttgacgcnt 180
gcctcncnca gnaccccgac ancaangtng cctgncacan gtgcaccaag accaacttgg 240
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 tacngtggnc tacnaga 77

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 <211> 279  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 tcatcattga cacctacngt ggctggggag cccatggtgg tggcgctttc tccggcaagn 60  
 nnncnannan ngnnnantgc agnngncgnt atntannaag gcacnatncn ttgatgtctg 120  
 cgatgacacg gactattctt ggagagcaaa gggcttccat gagcaagcaa aagctgccgg 180  
 tgttccggct attactactg ctggcatcta tccaggagtt agcaatgtga tggctgctga 240  
 cttgtacatg tgccagaagt gaaaatgnga acctgaaga 279

<210> 5  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 5  
  
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 gcncgcngct gcctcgtgca ggtgtacgta cnccatnggn tggccggann ccctgnccgt 120  
 gttcgtnaac tcgtacgagc accggcacgn tnaangncaa ggagatcntc aanatcntna 180  
 naggagaact tcgacttcag gcccgggatg a 211

<210> 6  
 <211> 266  
 <212> DNA  
 <213> Zea mays

<400> 6

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gcgtcagcca caagacagga actttcctgt tcacctccga gtccgtaggt gaaggtcacc 120

ctgacaagat cgctgatcag gtctctgacg ccgtttctcga tgcctgcttg gccgaggacc 180

ctctctccaa agtcgcttgc gagactgcta ccaagaccgg tatgatcatg gtcttcgggtg 240

aaatcaccac caaagccaag ctcgat 266

<210> 7

<211> 168

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 7

gggggcggtt ccncagttc tgtgggngct accgtgtagn ntcgtcggcc gatncacgcn 60

tctaangntg agtcggtcna caacgacgan atcgccgnng acctcangga gcacgtcnnc 120

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<210> 8

<211> 570

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 8

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cgaacacgcn tccgcccacg cgtccgcca cgcgtccgga ctagtcttag atggcggtgc 120

gctttctccg gcaaggaccc aaccaagggt gaccgcagcg gaggcctatgt cgcgaggagg 180

ctgccaaagag catcgtcgcc agcggccttg ctgcgccgc catcgtccag gtgtccacgc 240

catcggcgtg cccgagcctc tctccgttgt tttgtcgaca acttacggca accggcgcca 300

ttccccgaca aggagattc ctcaaagatt gtcaaaggga gaaatttcga atttaagggc 360

cttggaatg attaataat caaacctttg aacctccaaa gaaaaanggc gggaaacngg 420

cggctaacct cnaanaacgg gcaagcctaa tggggcaact tcggaaagg gaaaccctgg 480

actttcacct gggaaagggt ggtgaaaacc cactcaaant cggggggaaa actttcggcc 540

tnaaaggggg gccttttttt tnaataaana

570

<210> 9  
<211> 473  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 9

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ntanngcgtc cgaatttttt tncgtnгаа nanttgntcn ngggcggcgc catggtgccg 120  
tccgcgtgca naccgtgctc atctccaccc agcacancga nccgtggga acgncganc 180  
nccgcngnnn tcnaggggna cgtcatcaag cccgtgatcc ctgngacgtn cctcngaga 240  
agacntctt ccacctcnn cgtccgggc gcttctcan cggcngggcc cncgggacgc 300  
cggcctcacc ngccgcnnga tcatctcgg gncatncgg cngctgggga gccccttttt 360  
tggcgcttc tccngggnng gncctagca ncggtngacc gcanccgggc ctantgnccc 420  
tnncaggccn ccancannca tcttggccag cggcctcngc ccggnccnccn cct 473

<210> 10  
<211> 428  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 10

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ntgntncacc tcaaccgctc ngggcgcttn ntcctcngcg ggccccacgg tgactcctnn 120  
ctcaccggcc ancaagatca tcatngacac ctacggcnn cggggagccc acnccngggg 180  
cgctttcttc ggnaaggacc ccaccaaggt gnaccnnaan ggggcctacn tcgccnnnca 240  
tgncgtcaag agcattgtgg ccagncgcct nttncnacgc ttgctcgtgc aggtgtacta 300  
cgncatcggc gtgcctgaan cnccttcant nttcgttgaa ttctanagna accgggacca 360  
ttcccgacaa gganaatctt aaagatngtt aangatnaac tttncctcaa ggnccnggnt 420  
gatcacca 428

<210> 11



<211> 87  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 11  
  
 tggctcngnc tgtctgcncct ctatcatgcn ttnttatggc tcctacnagt tgnattctt 60  
 gatntgnccc tngcttatca ttttact 87

<210> 12  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 12  
  
 tnatgttggt cggcgagatc accaccaang cgagngtnta ctacgagaag atngtgcgcg 60  
 acacctgccg cgagatctgg ttcacctccn acnactggg ggctcgaccc caccnctcaa 120  
 ggtgcttggt aacatttaca ncaatcccc acattcccaa ggcnttcacn ggcactttaa 180  
 caaaacgncc naaggaaaat cggtcccgcn aacaaagcca aatttttcgg ttccccaccc 240  
 ancanacncc caacttatc cccttaacca cctgcttgca ccaaactttt tnnccccct 300  
 tantcgaagt tcnnaaagga cngnaccttt cctttgttaa accccaaagn aaaaaccaa 360  
 tttaccggtt nantntntta aaaaaaggcc gcncctntt nnccttttc cnttcacaac 420  
 cctnttttat tttttannca aaaa 444

<210> 13  
 <211> 513  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 13  
  
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 cgcgtccgaa ggggtgtgcat ggccacttca ccaagcgccc cgaggagatt ggagctgggtg 120  
 accagggaca catgttcggg tatgcgaccg atgagacccc tgagttgatg cccctcagcc 180  
 atgtccttgc caccaagcta ggtgctcgtc tcaccgaggt ccgcaagaac ggaacctgcc 240  
 cctggctcag gcctgatggg aagaccaggt tgacagtcga gtaccgcaat gaggggtgggtg 300

ccatggtccc catccgtgtc cacaccgtcc tcatctccac ccagcacgac gagacagtga 360  
ccaatgatga gatcgtgtct gacctgaagg agcatgtcat caagcctgtc atccctgagc 420  
agtaccttga cgagaagacc atcttccacc ttaacccatc tggccgcttt gtcattggtg 480  
gacctcaang cgaatctggg ctcaatgggc nca 513

<210> 14  
<211> 520  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 14

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tcgaccacg cgtccgtgat ccctgagaag tacctcgacg agaagacat cttccacctc 120  
aaccggtccg ggcgcttcgt catcggcggg cccacacggtg acgcccgcct caccggccgc 180  
aagatcatca tcgacacgta cggcggctgg ggagcccacg gcggtggcgc cttctccggc 240  
aaggacccca ccaaggtgga ccgcagcggc gcctacgtgg ccaggcaggc cgccaagagc 300  
atcgtggcca gcggcctcgc ccgcccgtgc ctctgtcagg tgcgtacgc catcggcgtg 360  
ccggagcccc tgtccgtgtt cgtcaactcg tacggcaccg gcacgatccc cgacaaggag 420  
atcctcaaga tcgtgaagga gaacttcgac ttcagcccgg gatgatcaag catcaacctn 480  
gacctgaaag aaaggcngna acanggtcat taaaaaccgc 520

<210> 15  
<211> 511  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 15

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acgcgtccgc aagaccctg agctgatgcc cctcagccat gtccttgcca ccaagcttgg 120  
tgctcgtctc acggagggtc gcaagaatgg aacctgcccc tggctcaggc ccgatgggaa 180  
gacccaggtg acagtggagt accgcaacga ggggtggcgc atggttccca tccgtgtgca 240  
cacagtcctc atctctaccc agcacgacga gacagtcacc aacgacgaga ttgctgtgta 300

cctgaaggag cacgtcatca agccagtcac ccccgagcag tacctcgacg agaagacaat 360  
 cttccacctc aaccggtctg gccgcttcgt catcggcgga cctcacggcg acgctggcct 420  
 cactggccgg aagatcatca tcgacaccta cgggtggctgg ggaacccacg gcggggggcg 480  
 cttctccggc aaggacccga caaggtggac c 511

<210> 16  
 <211> 483  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 16

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 gccatggtcc ccatccgtgt ccacaccgtc ctcatctcca cccagcacga cgagacagga 120  
 ccaatgatga gatcgctgct gacctgaagg agcatgtcat caagcctgtc atccctggca 180  
 gtaccttgac gagaagacca tcttcacct taacccatct ggccgctttg tcattgtgga 240  
 cctcacggcg atgctggcct cactggccgc aagatcatca ttgacaccta cgggtgctggg 300  
 gagcccatgg tgggtggcgt ttctccggca aggacccaac caagggtgac cgcacggagc 360  
 ctatgtcgca aggaggctg ccaagagcat cgtcgccagc ggccttgctc gcccgccatc 420  
 gtccaggtgt cttacgcat cggcgtgccc gaacctctct ccgtgttcgt cgcacgtacg 480  
 gna 483

<210> 17  
 <211> 454  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 17

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 gtgacggtgg agtacgtgaa cgagggcggc gccatggtgc ccgtccgcgt gcacaccgtg 120  
 ctcatctnca cccagcacga cgagaccgtc accaacgacg agatcgccgc cgacctcaag 180  
 gagcacgtca tcaagcccgt gatccctgag aagtacctng acgagaagac catcttcac 240  
 ctnaaccgct ccggggcgctt cgtcatcggc gggccccacg gtgacgccgg cctaccggcg 300

caagatcatc atcgacacgt acggcggctg gggagcccac ggcggtggcg ctttcttcng 360  
caaggacccc accaangtgg accgcaacgg ngcctacgtg ggcaggcang ccgncaaaaag 420  
catngtggcc aagcgggctt gcccgncgtt gctt 454

<210> 18  
<211> 474  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 18

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gacacctgcc gggngatcgg gttcacctgn gncgacgtgg gcctcgacgc cnaccgctgc 120  
aaggtgctgg tgaacatcga gcagcagtcc cccgacatcg cgcanggcgt gcacgggcac 180  
ttcacgaagc ggcccagga gatcggcgcg ggcnaccagg gccacatgtt cgggtacgcc 240  
accgachaga cccccgagct gatgccgctc agccacgtgc tggccaccaa gctggggcgcg 300  
cgcctcaccg aggtgcncan gaacggcacc tgcncctggc tgaggcccgga cggcaagacc 360  
caggtgacng tggagtagct gaacnagggc ngctccatgg tgcccgtccg ngtgcacacc 420  
ttgctnatct tcaccagna ctacnagacc gtancaacta ctagatcgnc ttnt 474

<210> 19  
<211> 435  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 19

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tgctgaggac cctgacagca aggttgcttg tgagacctgc accaagacca acatggcat 120  
ggcttttggg gagatcacca ccaaggccaa tgttgactac gagaagattg tcagggagac 180  
ctgccgcaac attggttttg tgtcaaacga tgttgggctt gacgccgacc actgcaaggt 240  
gctcgtgaac attgagcagc agtcccctga tattgctcan ggtgtgcatg gncacttacc 300  
aagcgccccg aggagattgg agctggtgac caggacaca tgttcgggta tgcgaccgat 360  
gagacccctg agttgatgcc cctcaccatg tccttggcac caagctangt gctcgtctta 420

ccgangtccg caaag

435

<210> 20  
<211> 422  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 20

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acggtggagt acgtgaacga gggcggcgcc atggtgcccg tccgcgtgca caccgtgctc 120
atctccaccc agcacgacga gaccgtcacc aacgacgaga tcgccgccga cctcaaggag 180
cacgtcatca agcccgtgat ccctgagaag tacctcgacg agaagaccat cttccacctc 240
aaccggtccg ggcgcttcgt catcggcggg cccacgggtg acgccggcct caccggccgc 300
aagatcatca tcgacacgta cggcggctgg ggaaccaag gcggtggcgc cttctccggc 360
aaggaccaa caangtgga cgcaangggg gccaanttgg caaggaagcc gcaagaanat 420
ct 422
```

<210> 21  
<211> 488  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 21

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cncgaataaa gagcagcagc gcaagaggtc ggtagagcga gaagaaggca atggcggcga 120
gagcttcctt ttcacctcgg agtccgtgaa cgaggggcac cccgacaagc tgtgcgacag 180
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ggcctcgacg ccgaccgctg caaggtgctg gtgaacatcg agcagcaatc cccgacatcg 420
cgcaaggcgt gcacgggcac ttcacgaaac ggnccgagga gatnggcgcn gggacaaggg 480
ccacatgt 488
```

<210> 22  
 <211> 491  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 22

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gggnnnnnngn aanttttctt gcccgccagg taccaatcaa gaattcncgg gtcgacccac 60
gcntccngat cgctgctgac ctgaaggagc atgtcatcaa gcctgtcatc cctgagcagt 120
accttgacga gaagaccatc ttccacctta acccatctgg ccgctttgtc attggtggac 180
ctcacggcga tgctggcctc actggccgca agatcatcat tgacacctac ggtggctggg 240
gagcccatgg tgggtggcgct ttctccggca aggacccaac caaggttgac cgcagcggag 300
cctatgtcgc aaggcaggct gccaagagca tcgtcgccag cggccttgct cgccgcgcca 360
tcgtccaggt gtcttacgcc atcggcgtgc ccgagcctct ctccgtgttc gtcgacacgt 420
acggcaacgg cgccattccc gacaaggaga ttctcaagaa tgtcaaggan aacttcaatt 480
caaggctggg a 491

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<210> 23  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 23

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ggtggctggg gagcccatgg tgggtggcgct ttctccggca aggacccaac caaggttgac 120
cgcagcggag cctatgtcgc aaggcaggct gccaagagca tcgtcgccag cggccttgct 180
cgccgcgcca tcgtccaggt gtcttacgcc atcggcgtgc ccgagcctct ctccgtgttc 240
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aacttcgatt tcaggcctgg catgatcatc atcaaccttg acctcaagaa aggcggcaac 360
gggcgctacc tnaagacggn ggnctacggc actttggaag ggacgacctn acttncctng 420
ganggggggg aancctta 439

```

<210> 24  
 <211> 502  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 24

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gggnnnngnng naactgtcta ccttgcccggt gccgggtccaa aattaacggg tccacccacg 60
cgtccggncc aatgtcgact acgagaagat tgtcagggag acatgccgca acattggttt 120
cgtgtcgaac gatgtcgggc ttgacgctga ccactgcaag gtgcttgtga acattgagca 180
gcagtcccct gatattgctc aggggtgtgca cggccacttc accaagcgcc ccgaggagat 240
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gccctcagc catgtccttg ccaccaagct tgggtgctcgt ctacggaggg ttcgcaagaa 360
tggaacctgc ccctggctca ggcccgatgg gaagaccagc gtgacagtgg agtaccgcaa 420
cgagggtggc gccatggttc ccatccgtgt gcacacagtc ctcatctcta cccaacacga 480
cgaagacagt caacaaacga cg 502
```

<210> 25  
 <211> 476  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 25

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ggnnnnntnnt nagnngggggg attaatgna tgctntaccg gtccggaatt cccgggtcga 60
cccacgcgtc cgccgaggtc cgcaagaacg gaacctgccc ctggctcagg cctgatggga 120
agaccaggt gacagtcgag taccgcaatg aggggtggtgc catggtcccc atccgtgtcc 180
acaccgtcct catctccacc cagcacgacg agacagtgc caatgatgag atcgctgctg 240
acctgaagga gcatgtcatc aagcctgtca tccttgagca gtaccttgac gagaagacca 300
tcttcacact taaccatct ggccgctttg tcattggtgg acctcacggc gatgctggcc 360
tcaactggccg caagatcatc attgacacct acggtggctg gggagcccat ggtggtggcg 420
ctttctccgg caaggaccca accaaggttg accgcagcgg acctatgtcg caaggc 476
```

<210> 26  
 <211> 393

<212> DNA  
 <213> Zea mays

<400> 26

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cctgcaccaa gaccaacatg gtcattggtct ttggtgagat caccaccaag gccaatgttg 60
actacgagaa gattgtcagg gagacctgcc gcaacattgg ttttgtgtca aacgatgttg 120
ggcttgacgc cgaccactgc aaggtgctcg tgaacattga gcagcagtcc cctgatattg 180
ctcaggggtgt gcatggccac ttcaccaagc gccccgagga gattggagct ggtgaccagg 240
gacacatgtt cgggtatgcg accgatgaga cccctgagtt gatgcccctc agccatgtcc 300
ttgccaccaa gctaggtgct cgtctcaccg aggtccgcaa gaacggaacc tgcccctggc 360
tcaagcctga tgggaaaaac caaggtgaca gtc 393
```

<210> 27  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 27

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cgagacagtg accaatgatg agatcgctgc tgacctgaag gagcatgtca tcangcctgn 60
catccctgag cagtaccttg acgagaagac catcttccac cttaacccat ctggccgctt 120
tgtcattggt ggacctcacg gcgatgctgg cctcaactggc cgcaagatca tcattgacac 180
ctacngtggc tggggagccc atggtggtgg cgctttctcc ggcaaggacc caaccaaggt 240
tgaccgcagc ggagcctatg tcgcaaggca ggctgccaa agcatcgtnn ccagcggcct 300
tgctcgccgc gccatcgctc aggtgtctta cgccatcggn gtgcccgcgc ctctctccgn 360
gttcgtngac acgtactgna ccggcctatc cccnacaang agatcttaag attgtcaagg 420
agaactttta ttcca 435
```

<210> 28  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 28

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agcccacggc gggggcgccct tctccggcaa ggaccccacc aaggtggacc gcagcggggc 60
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ctacgtcgcc aggcaggccg ccaagagcat cgtggccagc ggcctcgccc gccgctgcct 120  
cgtgcagggtg tcctacgcca tcggcgtgcc ggagcccctg tccgtgttcg tcgactccta 180  
cggcaccggg accatccccg acaaggagat cctaaagatc gtcaaggaga acttcgactt 240  
caggccaggg atggtcacca tcaacctoga cctcaagaag ggcggcaaca ggttcatcaa 300  
gaccgccgca tacggncaact ttggccgtga cgacgccgac ttcacctggg aggtgggtcaa 360  
gccctaag aangcattcc gcttaagaat gtattgggaa gttcactgga catgaagttc 420  
atcttcgtct ggctt 435

<210> 29

<211> 484

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 29

ttcgnatggt tcanactgcc annacagntc aaggntcgc gggtcgannc angcctcnag 60  
gcanntnccg ntgactgagg cccgacggca agaccaggt gacggtggag tacgtgaacg 120  
agggcgggcg catggtgccc gtccgctgc acaccgtgct catctccacc cagcacgacg 180  
agaccgtcac caacgacgag atcgccgccg acctcaagga gcacgtcatc aagcccgtga 240  
tccctgagaa gtacctcgac gagaagacca tcttcacact caaccgtcc gggcgcttcg 300  
tcacggcggt gcccacggt gacgccggcc tcaccggccg caagatnacc atcgacacgt 360  
acggcggtg gggagccac ggcggtggcg cttctccgg caaggacccc accaaagggtg 420  
gaccgcaacg gcgcctaagn nggccaaggc agggccgcc annagnnttc ntgncaagcg 480  
ggng 484

<210> 30

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 30

ctcacagagg ttgcgaagaa tggaacctgg ccttggtca ggcgatgg gaagaccag 60  
gtgacagtgg agtaccgcaa cgagggtggc gccatggttc ccatccgtgt gcacacagtc 120

ctcatctcta cccagcacga cgagacagtc accaacgacg agattgctgc tgacctgaag 180  
gagcacgtca tcaagccagt catccccgag cagtacctcg acgagaagac aatcttccac 240  
ctcaaccggt ctggccgntt cgtcatcggc ggacctnacg gcgacgccgg cctactggcc 300  
gnaagatcat catcgacacc tacggtggct ggggagccca cggcgggggc gccttcttcg 360  
gcaaggaccc gaccaangtg gaccgcacgg ggcctacgtn cgaggnaagc ttgcna 416

<210> 31  
<211> 484  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 31

attggtggac ctcacggcga tgctggcctc actggccgca agatcatcat tgacacctac 60  
gggggctggg gagcccatgg tgggtggcgct ttctccggca aggacccaac caagggtgac 120  
cgcagcggag cctatgtcgc aaggcaggct gccaagagca tcgtcgccag cggccttgct 180  
cgccgcgcca tcgtccagggt gtcttacgcc atcggcgctgc ccgagcctct ctccgtgttc 240  
gtcgacacgt acggcaccgg cgcgatcccc gacaaggaga tcctcaagat tgtcaaggag 300  
aacttcgatt tcaggcctgg catgatcatc atcaaccttg acctcaagaa aggcggcaac 360  
gggccgctac ctnaagacgg cggnctacgg gcacttttgg aaagggacca acctgacttn 420  
acctgggaag ggggtgaacc cttaagtcgg agaaaccctt ttgctaaggg ggcctttttt 480  
ttaa 484

<210> 32  
<211> 477  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 32

aactttattg ccaggcacgg taaangaatc ccgggtcgac ccacgcgtn gaggaccccc 60  
caagggtggac cgcagcggcg cctacgtggc caggcaggcc gccaaagagca tcgtggccgc 120  
ggcctcgccc gccgctgcct cgtgcagggtg tcgtacgcca tcggtgtgcc ggagccctgt 180  
ccgtgttcgt cgactcgtac ggcaccggca cgatccccga caaggagatc ctcaagtcgt 240

gaaggagaac ttcgacttca ggcccgggat gatcagcatc aacctcgacc tgaagagggc 300  
 ggcaacaggt tcatcaagac cgccgcttac ggccatttcg gccgtgacga cgccacttca 360  
 cctgggaagt ggtgaagccc ctcaagttcg acaaggcatc cggcttaang ttggaatnnt 420  
 caacggtggg gcatgaggac taccttcctc cnggctctgc tggtacctgc aacattg 477

<210> 33  
 <211> 488  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 33

ggnnnnnnnn naactgttac gcntgccggt gccgggtccag aattcacggg tcgacccacg 60  
 cgtccgcgtt tgcctcttct ccctcttgcc ggggtcccgaa taaagagcag cagcgcaaga 120  
 gtcggtagag cgagaagaag gcaatggcgg ccgagagctt ccttttcacc tcggagtccg 180  
 tgaacgaggg gcaccccgac aagctgtgcg accaggtgtc ggacgccgtg cttgacgcat 240  
 gcctcgcgca ggaccccgac agcaaggtgg cctgcgagac ctgcaccaag accaacaatg 300  
 tgatggtgtt cggcgagatc acgaccaagg cgaccgtgga ctacgagaag atcgtgcgcg 360  
 acacctgccg cgagatcggg ttcacctccg acgacgtggg cctcgacgcc gaccgtgca 420  
 aggtgctggt gaacatcgag caacagtccc cgacatcgcg caaggcgtgc acgggcactt 480  
 cacgaaac 488

<210> 34  
 <211> 480  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 34

ggggnnngnn ggtctctttt ggcnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnncc 60  
 acgntccgc gtttgctctt tctccctctt gccgggtccc aataaagagc agcagcgcaa 120  
 gaggtcggta gagcgagaag aaggcaatgg cggccgagag cttccttttc acctcgaggt 180  
 ccgtgaacga ggggcacccc gacaagctgt gcgaccaggt gtcggacgcc gtgcttgacg 240  
 catgcctcgc gcaggacccc gacagcaagg tggcctgcga gacctgcacc aagaccaaca 300

tggatgatggg gttcggcgag atcacgacca aggcgaccgt ggactacgag aagatcgtgc 360  
 gcgacacctg ccgcgagatc ggggttcacct ccgacgacgt gggcctcgac gccgaccgct 420  
 gcaaggtgct ggtgaacatc gagcagcagt ccccgacat cgcgcaaggc gtgcacgggc 480

<210> 35  
 <211> 453  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 35

ccgttcgcct cttctcctcc ctccctgccg gtccttaata aagagcagca ncgcaagagg 60  
 tnggtagagc gagcgagaag aaggcaatgg cggcgagagc cttcctgttc acctcggagt 120  
 ccgtgaacga ggggcaccca gacaagctgt gcgaccaggt gtcggacgag gtgctggacg 180  
 cctgcctggc gcangacccc gacagcaagg tggcctgcna gacctgcacc aagacgaaca 240  
 tggatgatggg gttcggcgag atcaccacca aggcgagcgt ggactacgag aagatcgtgc 300  
 gcgacacctg ccgcgagatc ggggttcacct tcgacgacgt ggggctcgac nccnaccgct 360  
 gcaaggtgct ggtgaacatc gagcagcagt ccccgacat cgcgcaaggc gtgcacggca 420  
 ctttacgaaa ccggcccagag gagatcggcc cnt 453

<210> 36  
 <211> 505  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 36

agggttgttg anngttggnt anatganann tgcttttacn cggtttcgga attcccgggt 60  
 cgacccacgc gtccgcccgt tcgcctcttc tncctcctcc tgcgggtcc ttaataaaga 120  
 gcagcagcgc aagaggttgg tagagcgagc gagaagaagg caatggcggc ggagagcttc 180  
 ctgttcacct cggagtccgt gaacgagggg caccagaca agctgtgcga ccaggtgtcg 240  
 gacgcgggtg tggacgcctg cctggcgcan gacccgaca gcaaggtggc ctgcgagacc 300  
 tgcaccaaga cgaacatggg gatggtgttc ggcgagatca ccaccaaggc gagcgtggac 360  
 tacgagaaga tcgtgcgcga cacctgccgc gagatcgggt tcacctncga cgacgtgggg 420

ctcgacgccg accgctgcaa ggtgctggtg aacatcgagc ancagtcccc cgacatcgcg 480  
cagggcgtgc acgggcactt tacga 505

<210> 37  
<211> 447  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 37

gcagtcccct gatattgctc aggggtgtgca cggccacttc accaagcgnc ccgaggagat 60  
tggagctggt gaccaggggc acatgtttgg gtatgcgact gacgagaccc ctgagctgat 120  
gccctcagc catgtccttg ccaccaagct tgggtgctcgt ctcacagagg ttcgcaagaa 180  
tggaacctgc ccctggctca ggcccgatgg gaagaccag gtgacagtgg agtaccgcaa 240  
cgagggtggc gccatggttc ccatccgtgt gcacacagtc ctcatctcta cccaacacga 300  
cgagacangt caccaacgac gaagattgct gctgacctga aaggaacaac gtcatcaaac 360  
caagtcatnc ccgaacagta cctttgacga gaagacaatc tttcanctta acccgtctgg 420  
nccntttgtc atnngnggac ctnaacg 447

<210> 38  
<211> 420  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 38

ggncgctttg tcattggtgg acctcacggc gatgctggcc tcaactggccg caagatcntc 60  
atngacacct acggtggctg gggagcccat ggtggtggcg ctttctccgg caaggaccca 120  
accaaggttg accgcagcgg agcctatgtc gcaaggcagg ctgccaagag catcgtcgcc 180  
agcggccttg ctgcgcgcgc catcgtccag gtgtcttacg ccatcggcgt gcccgagcct 240  
ctctccgtgt tcgtcgacac gtacggcacc ggcgcgatcc ccgacaagga gacacctcaag 300  
attgtcaaag gagaacttcg atttcaggcc tggcatgatc atcatcaacc ttgacctcaa 360  
gaaaggcggc aacggggcgt tancttaaga acggcggnct acgggcactt ttggaangga 420

<210> 39  
 <211> 499  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 39  
  
 cccatctggc cgctttgtca ttggtggacc tcacggcgat gctggcctca ctggccgcaa 60  
 gatcatcatt gacacctacg gtggctgggg agcccatggg ggtggcgctt tctccggcaa 120  
 ggacccaacc aaggttgacc gcagcggagc ctatgtcgca aggcaggctg ccaagagcat 180  
 cgtcgccagc ggccttgctc gccgcgccat cgtccagggtg tcttacgccca tcggcggtgcc 240  
 cgagcctctc tccgtgttcg tcgacacgta cggcaccggc gcgatccccg acaaggagat 300  
 cctcaagatt gtcaaggaga acttcgattt caggcctggc atcatcatca accttgacct 360  
 caagaaaggc ggcaacgggc gctacctnaa gacggcggcc tacggcactt tggaagggac 420  
 gaccctgact tcacctggga ggtggtgaaa ccaactcaaag tcggagaaac cttntgctaa 480  
 agcnggcttt tttttaaaa 499

<210> 40  
 <211> 494  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 40  
  
 ggnnnnngnn nnngttaact tntccgccgg caggtaangg tcaagaattc ccgggtcgac 60  
 cacgcgtccg ctncctcttg ccggtcccga ataaanagca gcagcgcang aggtcgggtga 120  
 gcgagaagaa ggcaatggcg gccgagagct tccttttcac ctcggantcc gtgaacgggg 180  
 gcaccccgac aagctgtgcg accaggtgtc ggacgccgtg cttgacgcat gcctcggcag 240  
 gaccccgaca gcaangtggc ctgcgagacc tgcaccaaga ccaacatggg gatgggttcg 300  
 gcgagatcac gaccaaggcg accgtggact acgagaagat cgtgcgcgac acctccgcga 360  
 gatnggggtt acctccgacg aactgggcct cnaacgccga accgctgcaa ggtctggtga 420  
 acatcnanca gcatttcccc gacatcgcgc agggcntgca cgggcacttc acaagcngcc 480  
 cgaggagatc ngcg 494

<210> 41  
 <211> 499  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 41  
  
 gggnttntn tn gntgnngat ntntggcnnn ccggtccgga attcccgggt cgacccacgc 60  
 gtccgnccac gcgtccgcat catcgacacg tacgngggct ggggagccca cggcgggtggc 120  
 gcctnctccg gcaaggaccc caccaagggtg gaccgcagcg gcgcctacgt ggccaggcag 180  
 gccgccaaga gcatcgtggc cagcggcctc gcccgccgct gcctcgtgca ggtgtcgtac 240  
 gccatcggcg tgccggagcc cctgtccgtg ttcgtcgact cgtacggcac cggcacgac 300  
 cccgacaagg agatcctcaa gatcgtgaag gagaacttca acttcaggcc cgggatgac 360  
 agcatcaacc tcgacctgaa gaanggcggc aacagggttca tcangaccga cgctacggcc 420  
 acttcggccg tgacgacgcc gactttacct gggaagtggg gaagcccctt aagttccaca 480  
 aggatnnggt ttaagggtg 499

<210> 42  
 <211> 325  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 42  
  
 cccgacggca agacccaggt gacggtggag tacgtgaacg anggcggcgc catggtgccc 60  
 gtccgcgtgc acaccgtgt catctccacc cagcacgacg agaccgtcac cnaacgacga 120  
 gatcgccgcc gacctcaagg agcacgtcat caagcccgtc atcccggaga ggtacctgga 180  
 cgagaagacc atcttcacc tcaaccgctc ggggcgcttc gtcacggcg ggccccacgg 240  
 ggacgccggc ctcaccggcc gcaagatcat catcgacacc tacggcggct ggggagccca 300  
 cggcgggggc gccttctccg gcaag 325

<210> 43  
 <211> 319  
 <212> DNA  
 <213> Zea mays  
  
 <400> 43

agcggccccga ggagatcggc gcgggcgacc agggccacat gttcgggtac gccaccgacg 60  
 agacccccga gctgatgccg ctgagccacg tgctggccac caagctgggc gcgcgcctca 120  
 ccgaggtgcg caagaacggc acctgcgcct ggctgaggcc cgacggcaag acccaggtga 180  
 cgggtggagta cgtgaacgag ggcggcgcca tgggtgcccg cgcgtgcac accgtgctca 240  
 tctccacca gcacgacgag accgtcacca acgacgagat cgccgccgac ctcaaggagc 300  
 acgtcatcaa gcccgtgat 319

<210> 44

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 44

ggaacctgcc cctggctnag gcccgatggg aagacccagg tgacagtgga gtaccgcaac 60  
 gaggggtggcg ccatgggtcc catccgtgtg cacacagtcc tcatctctac ccagcacgac 120  
 gagacagtca ccaacgacga gattgctgct gacctgaagg agcacgtcat caagccagtc 180  
 atccccgagc agtacctnna cnagaagaca atcttcacct caacccgtnt ggccgcttcg 240  
 tcatcgggcg accttacggc gacnccggcc tnaactggccg gaaagatcat natcgacacc 300  
 tacgggtggct ngggagccca cggcgggggc gccttnttcg gcaaggaccc gaccaaagtt 360  
 gaccgcaacg gggcctacgt ngcgaggcaa gcttgcaana ncatngtnnn ccgccgnctt 420  
 nccgcggnc 429

<210> 45

<211> 315

<212> DNA

<213> Zea mays.

<400> 45

cgggcgacca gggccacatg ttcgggtacg ccaccgacga gacccccgag ctgatgccgc 60  
 tgagccacgt gctggccacc aagctgggcg gcgcctcac cgaggtgcg aagaacggca 120  
 cctgcgcctg gctgaggccc gacggcaaga cccaggtgac ggtggagtac gtgaacgagg 180  
 gcggcgccat ggtgcccgtc cgcgtgcaca ccgtgctcat ctccaccag cacgacgaga 240



ccgtcaccaa cgacgagatc gccgccgacc tcaaggagca cgtcatcaag cccgtgatcc 300  
ctgagaagta cctcg 315

<210> 46  
<211> 474  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 46

ggggtcggnn gtnattctat antgataana ctcanataan tnnngnctcn taggacnntt 60  
anaannccct agagtnagtc gtttaacggc gggggcgccct tctccggcaa ggacccgacc 120  
aaggtggacc gcagcggggc ctacgtcgcg aggcaggctg ccaagagcat cgtcgccgcc 180  
ggcctcgccc gccgtgccat cgtccaggtc tcctacgcca tcggcgtgcc cgagcccctg 240  
tcggtgttcg tggacacgta cggcaccggc gcgatccccg acaaggagat cctgaagatc 300  
gtgaaggaga acttcgactt caggcccggc atgatcatca tcaacctcga cctcaagaaa 360  
ggcggcaacg ggcgctacct caagacggcg gcctacgggc actttgggag ggacgaaccc 420  
gacttcacct gggaagtngt taaaccccc naaggcggaa aanccttntt ctgg 474

<210> 47  
<211> 410  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 47

gtgcgcgaca cctgccgcga gatcgggttc acctccgacg acgtgggcct cgacgccgac 60  
cgctgcaagg tgctggtgaa catcgagcag cagtcccccg acatcgcgca nggcgtgcac 120  
gggcacttca cgaagcggcc cgaggagatc ggcgcggggc accagggcca catgttcggg 180  
tacnccaccg acnagacccc cgagctgatg ccgctcagcc acgtgctggc caccaagctn 240  
ggcncgcgcc tcaccgaggt tccgcaagac gggnacctgc gcctggntga nggcccgcg 300  
gcaagaccaa ggtnacggtg gagtacgtga actagggcgg ctccattggt gccctccgcg 360  
ttcaaaaccg tgctaantnc accaagnact actaagaccg tnnccaacaa 410

<210> 48

<211> 297  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 48

ttgcccgtcc gcggtgcacac cgtgctcatc tccaccacgc acgacgagac cgtcaccaac 60  
 gacgagatcg ccgccgacct caaggagcac gtaatcaagc ccgtcatccc gganaggtag 120  
 ctggacgaga agaccatctt ccacctcaac ccgtcggggc gcttcgtcat cggcggggccc 180  
 cacggggacg ccggcctcac cggccgcaag atcatcatcg acacctacgg cggctgggga 240  
 gccacggcg ggggcgcctt ctccggcaag gacccaccca aggtggaccg cagcggg 297

<210> 49  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 49

ctggcctcac tggccgnaag atcatcatcg acacctacgg tggctgggga gccacggcg 60  
 ggggcncctt ctccggcaag gacccgacca aggtggaccg cagcggggcc tacgtcgga 120  
 ggcaggctgc caagagcatc gtcgccgcgc gcctcgccc cgtgccatc gtccaggctt 180  
 cctacgccat cggcgtgccc gagcccctgt cgggtgttcgt ggacacntac ggcaccggcg 240  
 cgatccccga caaggagatc ctgaagatcg tgaaggagaa cttcgacttc angcccggca 300  
 tgatcatcat caacctngac ctcaagaaag gcggnnacgg nccgctacct taaanaacgg 360  
 nnggcctacg ggcactttgg gaagggaacna accccnattt aacctgggaa gtggttnaac 420  
 cccttaaggc ggaaaaaa 438

<210> 50  
 <211> 316  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 50

cgtgaacgag gggcacccag acaagctgtg cgaccaggtg tcggacgcgg tgctggacgc 60  
 ctgcctggcg caggaccccg acagcaaggt ggcntgcgag acntgcacca agacgaacat 120

ggtgatggtg ttcggcgaga tcaccaccaa ggcgagcgtg gactacgaga agatcgtgctg 180  
cgacacctgc cgcgagatcg ggttcacctc cgacgacgtg gggctcgacg ccgaccgctg 240  
caaggtgctg gtgaacatcg ancagcagtc ccccgacntc gcgcagggcg tgcacgggca 300  
nttcacgaag cggccc 316

<210> 51  
<211> 339  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 51

acacagtcct catctctacc cagcacgacg agacagtcac caacgacgag attgctgctg 60  
acctgaagga gcacgtcatc aagccagtca tccccgagca gtacctcgac gagaagacaa 120  
tcttccacct caaccgtctt ggccgcttcg tcatcggcgg acctcacggc gacgcggctc 180  
tcaactggccg gaagatcatc atcgacacct acggtggctg gggagccac ggcgggggcg 240  
cttctccggc aangacccga ccaaggtgga ccgcagcggg gcctacgtcg cgaggcaggc 300  
tgccaagagc atcgtcgccg cggcctcgcc gcnegcgtt 339

<210> 52  
<211> 300  
<212> DNA  
<213> Zea mays

<400> 52

agaagatcgt gcgcgacacc tgccgcgaga tcgggttcac ctccgacgac gtgggcctcg 60  
acgccgaccg ctgcaagggtg ctggtgaaca tcgagcagca gtcccccgac atcgcgcagg 120  
gcgtgcacgg gcacttcacg aagcggcccg aggagatcgg cgcggggcgac cagggccaca 180  
tgttcgggta cgccaccgac gagacccccg agctgatgcc gctgagccac gtgctggcca 240  
ccaagctggg cgcgcgcctc accgaggtgc gcaagaacgg cacctgcgcc tggctgaggc 300

<210> 53  
<211> 303  
<212> DNA  
<213> Zea mays

<400> 53

gcccgaggag atcggcgcg ggcaccagg gccacatgtt cgggtacgcc accgacgaga 60  
cccccgagct gatgccgtga gccacgtgct ggccaccaag ctggggcgcg gcctcaccga 120  
ggtgcgcaag aacggcacct gcgcctggct gaggcccgac ggcaagaccc aggtgacggg 180  
ggagtacgtg aacgagggcg gcgccatggt gcccgctccg gtgcacaccg tgctcatctc 240  
caccagcac gacgagaccg tcaccaacga cgagatcgcc gccgacctca aggagcacgt 300  
cat 303

<210> 54

<211> 477

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 54

tatttncccg ccaggtaaa gtcaagaatt cccgggtcga cccacgcgtc cgcccacgct 60  
ccgcccacgc gtccgcccac gcgtccggcg gggcctacgt cgcgaggcag gctgccaaag 120  
catcgtcgcc gccggcctcg cccgccgcgc cattgtccag gtctcctacg ccatcggtg 180  
cccgagcccc ttctgggtgt cgtggacacg tacggcaccg gcgcgatccc cgacaagaga 240  
tcctgaagat cgtgaaggag aacttcgact tcaggcccgg catgatcatc atcaactcga 300  
cctcaagaaa ggcggcaacg ggcgctacct caagacggcg gcctacgggc acttgggagg 360  
gacgaccccg acttcacctg ggaggtggtg aagcccctca aggcgaaaaa acctcttctg 420  
caagaaggcg ctccccggg tttggaanaa gcttttggtc tggctctggtc tgtctgg 477

<210> 55

<211> 487

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 55

ggnnnnngna antttaaccn ctagtaggac tgannggtca ggnattcacg ggtcgancca 60  
cgcgccatg cggctcttct ccctcttgcc ggtcccgaat aaagagcagc agcgcaagag 120  
gtcggtagag cgagaagaag gcaatggcgg ccgagagctt ccttttcacc tcggagtccg 180

tgaacnaggg gcaccccgac aagctgtgcg accaggtgtc ggacgccgtg cttgacgcat 240  
gcctcgcgca ggaccccgac agcaaggtgg cctgcgagac ctgcaccaag accaacaatgg 300  
tgatggtggt cggcgaagat cagcaccaag gcgaccgtgg actacgaaga agatcgtgcg 360  
cgacacctgc cgcgagatcg ggttcacctc cgacgacgtg ggccctcgacg ccgaccgctg 420  
caangtgctg ggtgaacatc gagcagcagt cccccgacat cgcgcaaggc gtgcacgggc 480  
acttcac 487

<210> 56  
<211> 299  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 56

acctgcacca agaccaacat ggtcatggtc tttggtgaga tcaccaccaa ggccaatggt 60  
gactacgaga agattgtcag ggagacctgc cgcaacattg gttttgtgtc aaacgatggt 120  
gggcttgacg ccgancactg caaggtgctc gtgaacattg agcagcagtc ccctgatatt 180  
gctcaggggtg tgcattggcca cttaccaag cgccccgagg agattggagc tggtgaccag 240  
ggacacatgt tcgggtatgc naccgatgag acccctgagt tgatgccct cagccatgt 299

<210> 57  
<211> 315  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 57

acgatgtcgg gcttgacgct gaccactgca aggtgcttgt gaacattgag cagcagtc 60  
ctgatattgc tcagggtgtg cagggccact tcaccaagcg ccccgaggag attggagctg 120  
gtgaccaggg gcacatgttt gggatatgca ctgacgagac ccctgagctg atgcccctca 180  
gccatgtcct tgccaccaag cttggtgctc gtctcacggn ggctcgcaag aatggaacct 240  
gcccctggct caggcccgat ggggaagacc aggtgacagt ggagtaccgc aacgaagggt 300  
gcgcatgggt tccca 315

<210> 58

<211> 328  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 58

cgtctggccg cttcgtcatc ggcggacctc acggcgacgc tggcctcact ggccggaaga 60  
 tcacatcga cacctacggt ggctggggag cccacggcgg gggcgccctc tccggcaagg 120  
 acccgaccaa ggtggaccgc agcggggcct acgtcgcgag gcaggctgcc aagagcatcg 180  
 tcgccgccgg cctcgcccgc cgtgccatcg tccaggctct ctacgccatc ggcgtgcccg 240  
 anccccctgtc ggtgttcgtg gacacgtacg gcaccggcgc gatccccgac aaggagatcc 300  
 tgaagatcgt gaaggagaat tcgacttc 328

<210> 59  
 <211> 291  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 59

cgagctgatg ccgctgagcc acgtgctggc caccaagctc ggcgcgcgnc tgacggaggt 60  
 ccgcaaggac ggcacctgcn cctggctcag gcccgacggc aagacccagg tgacggtgga 120  
 gtacgtgaac ganggcggcg ccatggtgcc cgtccgcgtg cacaccgtgc tcactctccac 180  
 ccagcacgac gagaccgtca ccaacgacga gatcgccgcc gacctcaagg agcacgtcat 240  
 caagcccgtc atcccggaga ggtacctgga cgagaagacc atcttccacc t 291

<210> 60  
 <211> 305  
 <212> DNA  
 <213> Zea mays

<400> 60

gggtatgcga ccgatgagac ccctgagttg atgcccctca gccatgtcct tgccaccaag 60  
 ctaggtgtc gtctcaccga ggtccgcaag aacggaacct gccctggct caggcctgat 120  
 gggaagaccc aggtgacagt cgagtaccgc aatgaggggtg gtgccatggt ccccatccgt 180  
 gtccacaccg tcctcatctc caccagcac gacgagacag tgaccaatga tgagatcgct 240

gctgacctga aggagcatgt catcaagcct gtcacccctg agcagtacct tgacgagaag 300  
 accat 305

<210> 61  
 <211> 300  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 61

ggcctgcgag acctgcacca agaccaacat ggtgatggtg ttcggcgaga tcacgaccaa 60  
 ggcgaccgtg gactacgaga agatcgtgcg cgacacctgc cgcgagatcg ggttcacctc 120  
 cgncgacgtg ggcctcgacg ccgnccgctg caaggtgctg gtgaacatcg agcagcagtc 180  
 ccccgacatc gcgcagggcg tgcacgggca cttcacgnag cggnccgagg agatnggngc 240  
 gggcgaccag ggnacatgt tcgggtacgn caccgacgag acccccgagc tgatgccgct 300

<210> 62  
 <211> 558  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 62

gnnnnngtncc cnnnttnnnn tntttgncag nacncttntt cgctgcacg tactcggtcc 60  
 ggaattcccg ggtcgaccca cgcgtccgcc cagcgtccg cccacgcgtc cgccacgcg 120  
 tccgcccacg cgtccgcccc cgcgtccggc ctcttctccc tcttgccggt cccgaataaa 180  
 gagcagcagc gcaagaggtc ggtagagcga gaagaaggca atggcggccg agagcttcct 240  
 tttcacctcg gagtccgtga acgaggggca ccccgacaag ctgtgcgacc aggtgtcgga 300  
 cgccgtgctt gacgcatgcc tcgcgagga ccccgacagc aaggtggcct gcgagacctg 360  
 caccaagacc aacatggtga tgggtgttcg cgagatcacg accaaggcga ccgtggacta 420  
 cgagaagatc gtgcgcgaca cctgccgca gatcgggttc acctncgacg acgtgggcct 480  
 tnacgccnac cnntgcaagg tncgtgtgaa cattgagcaa naattcccng gactttnnngc 540  
 anggcgttca cnggcant 558

<210> 63

<211> 332  
 <212> DNA  
 <213> Zea mays

<400> 63

```

gcccctgggc tcaggcctga tgggaagacc caggtgacag tcgagtaccg caatgagggg 60
ggtgccatgg tccccatccg tgtccacacc gtcctcatct ccaccagca cgacgagaca 120
gtgaccaatg atgagatcgc tgctgacctg aaggagcatg tcatcaagcc tgtcatccct 180
gagcagtacc ttgacgagaa gaccatcttc caccttaacc catctggccg ctttgtcatg 240
tggacctcac ggcgatgctg gcctcactgg ccgcaagatc atcatgacac ctacgggtggc 300
tggggagccc atggtggtgg cgctttctcc gg 332

```

<210> 64  
 <211> 314  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 64

```

ctcggagtct gtgaacgagg gacaccctga caagctctgt gaccaggtct cagatgccgt 60
tcttgacgct tgccttgctg aggaccctga cagcaagggt gcttgtgaga cctgcaccaa 120
gaccaacatg gtcatggtct ttggtgagat caccaccaag gccaatgttg actacgagaa 180
gattgtcagg gagacctgcc gcaacattgg ttttgtgtca aacgatgttg ggcttgacgc 240
cgaccactgc aagtgctcgt gaacattnag cagcagtcct ctgatattgc tcanggtgtg 300
catggccact tcac 314

```

<210> 65  
 <211> 293  
 <212> DNA  
 <213> Zea mays

<400> 65

```

ggacgagaag accatcttcc acctcaaccc gtcggggcgc ttcgtcatcg gcggggccca 60
cggggacgcc ggcctcaccg gccgcaagat catcatcgac acctacggcg gctggggagc 120
ccacggcggg ggcgccttct ccggcaagga cccaccaag gtggaccgca gcggggccta 180
cgtcgccagg caggccgcca agagcatcgt ggccagcggc ttcgcccgcc gctgcctcgt 240

```



gcaggtgtcc tacgccatcg ggtgccggag cccctgtccg tgttcgtcga etc 293

<210> 66  
 <211> 289  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 66

gcaaggtggc ctgcgagacc tgcaccaaga cgaacatggt gatggtgttc ggcgagatca 60  
 ccaccaaggc gagcgtggan tacgagaagn tcgtgcgcga cacctgccgc gagatcgggt 120  
 tcacctccga cgacgtgggg ctgcacgccg accgctgcaa ggtgctggtg aacatcgagc 180  
 agcagtcccc cgacatcgcg cagggcgtgc acgggcactt cacgaagcgg cccgaggaga 240  
 tcggcgcccg cgaccagggc cacatgttcg ggtacgccac cgacgagac 289

<210> 67  
 <211> 306  
 <212> DNA  
 <213> Zea mays

<400> 67

gttgactacg agaagattgt caggagacc tgccgcaaca ttggttttgt gtcaaacgat 60  
 gttgggcttg acgccgacca ctgcaagggtg ctctgaaca ttgagcagca gtcccctgat 120  
 attgctcagg gtgtgcatgg ccacttcacc aagcgccccg aggagattgg agctggtgac 180  
 cagggacaca tgttcgggta tgcgaccgat gagaccctg agttgatgcc cctcagccat 240  
 gtccttgcca ccaagctagg tgctcgtctc accgaggtcc gcaagaacgg aacctgcccc 300  
 tggctc 306

<210> 68  
 <211> 303  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 68

tgacaagctc tgtgaccagg tctcagatgc cgttcttgac gcttgccttg ctgaggaccc 60  
 tgacagcaag gttgcttggtg agacctgcac caagaccaac atggtcatgg tctttggtga 120

gatcaccacc aaggccaatg ttgactacga gaagattgtc agggagacct gccgcaacat 180  
 tggttttgtg tcaaacgatg ttgggcttga cgccgaccac tgcaagggtgc tcgtgaacat 240  
 tgagcagcag tcccctgata ttgctcaggg tngcatggc cacttcacca agcgccccga 300  
 gga 303

<210> 69  
 <211> 300  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 69

caaagaccaa catggtcatg gtctttggtg agatcaccac caaggccaat gtcgactacg 60  
 agaagattgt caggagaca tgccgcaaca ttggtttcgt ntcgaacgat gtcgggcttg 120  
 acgtgacca ctgcaagggtg cttgtgaaca ttgagcagca gtcccctgat attgctcagg 180  
 gtgtncacgg ccacttcacc aagcgccccg aggagattgg agctggtgac caggggcaca 240  
 tgtttgggta tgcgactgac gagaccctg agctgatgcc cctcagccat gtccttgcca 300

<210> 70  
 <211> 329  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 70

gatcaaagaa gatggcagct gtcgacacat tctcttcac ctcggagtct gtgaacgagg 60  
 gacaccctga caagctctgt gaccaggtct cagatgccgt tcttgacgct tgccttgctg 120  
 aggaccctga cagcaagggtt gcttgtgaga cctgcaccaa gaccaacatg gtcattggtct 180  
 ttggtgagat caccaccaag gccaatgttg actacgagaa gattgtcagg gagacctgcc 240  
 gcaacattgg ttttgtgtca aacgatgttg ggcttgacgc cgaccattgc aagggtgcncg 300  
 tgaanatnng cancagtcctc ctgatattg 329

<210> 71  
 <211> 304  
 <212> DNA  
 <213> Zea mays

```
<223>      unsure at all n locations
<400>      71
```

gctgaggacc	ctgacagcaa	ggntgcttgc	naganctgca	ccaagaccaa	catggtcatg	60
gtcttttgng	agatcaccac	caaggccaat	gtcgactacg	agaagattgt	cagggagaca	120
tgccgcaaca	ttggtttcgt	gtcgaacgan	gtcgggcntg	angctgacca	ctgcaaggng	180
cttgtgaaca	ttgagcagca	gtccctgat	attgctcagg	gtgtgcacgg	ccacttcacc	240
aagcgccccg	aggagattgg	agctggtgac	caggggcaca	tgtttgggta	tgcgactnac	300
gaga						304

<210>	72
<211>	307
<212>	DNA
<213>	Zea mays

```
<223>      unsure at all n locations
<400>      72
```

cgcttgccctt	gctgaggacc	ctgacagcaa	ggttgcttgt	gagacctgca	ccaagaccaa	60
catggtcang	gnccttttgt	gagatcacca	ccaaggccaa	tgttgactac	gagaagattg	120
tcagggagac	ctgccgcaac	attggttttg	tgtcaaacga	tgttgggctt	gacgccgacc	180
actgcaaggt	gctcgtgaac	attgagcagc	agtcccctga	tattgctcag	ggtgtgcatg	240
gccacttcac	caagcgcccc	gaggagattg	gagctggtga	ccagggacac	atgttcgggt	300
atgcgac						307

<210>	73
<211>	282
<212>	DNA
<213>	Zea mays

<400> 73

gccaccgacg	agacccccga	gctgatgccg	ctgagccacg	tgctggccac	caagctcggc	60
gcgcgcctga	cggaggtccg	caaggacggc	acctgcgcct	ggctcaggcc	cgacggcaag	120
accaggtga	cggtggagta	cgtgaacgag	ggcggcgcca	tggtgcccg	ccgcgtgcac	180
accgtgctca	tctccacca	gcacgacgag	accgtcacca	acgacgagat	cgccgccgat	240
ctcaaggagc	acgtcatcaa	gcccgtcatc	ccggagaggt	ac		282

<210> 74  
 <211> 320  
 <212> DNA  
 <213> Zea mays

<400> 74

```
caagcttggg gctcgtctca cggagggttcg caagaatgga acctgcccct ggctcaggcc 60
cgatgggaag acccaggtga cagtggagta ccgcaacgag ggtggcgcca tggttcccat 120
ccgtgtgcac acagtcctca tctctaccca gcacgacgag acagtcacca acgacgagat 180
tgctgctgac ctgaaggagc acgtcatcaa gccagtcatc cccgagcagt acctcgacga 240
gaagacaatc ttccacctca acccgtctgg ccgcttcgtc atcggcgggac tcacggcgac 300
ctggcctcac tggccggaag 320
```

<210> 75  
 <211> 370  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 75

```
agagcatcgt ggccagcggc ctgccccgcc gctgcctcgt gcagggtgtcc tacgccatng 60
gcgtgcccga gccctgtca gtgttcgtcg actcctacgg caccgggacc atccccgaca 120
aggagatcct caagatcgtc aaggagaact tcgaattcag gcccgggatg atcaccatca 180
acctcgacct caagaagggc ggcaacaggt tcatcaagac cgccgcatac ggccactttg 240
gccgtgacga cgccgacttc acctgggagg tggtaagcc cctaaagaag gcatccgctt 300
aagaatgtat tgggaagtgc actggacatg aggttcattc tcgtctggct ctgctgatac 360
ctgcaaggat 370
```

<210> 76  
 <211> 300  
 <212> DNA  
 <213> Zea mays

<400> 76

```
atggaacctg cccctggctc aggcccgatg ggaagaccca ggtgacagtg gagtaccgca 60
```

acgaggggtgg cgccatggtt cccatccgtg tgcacacagt cctcatctct acccagcacg 120  
acgagacagt caccaacgac gagattgctg ctgacctgaa ggagcacgtc atcaagccag 180  
tcatccccga gcagtacctc gacgagaaga caatcttcca cctcaaccg tctggccgct 240  
tcgtcatcgg cggaacctcac ggcgacgctg gcctcactgg ccggaagatc atcatcgaca 300

<210> 77  
<211> 315  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 77

ctcagatgcc gttcttgacg cttgccttgc tgaggaccct gacagcaagg ttgcttgtga 60  
gacctgcacc aagaccaaca tggatcatggt ctttggtgag atcaccacca aggccaatgt 120  
tgactacgag aagattgtca gggagacctg ccgcaacatt ggttttgtgt caaacgatgt 180  
tgggcttgac gccgaccact gcaagggtgct cgtgaacatt gagcagcagt cccctgatat 240  
tgctcagggt gtgcatggcc attcaccaag cgccccgang agattggagc tggtgaccag 300  
gacacatggt cgggg 315

<210> 78  
<211> 297  
<212> DNA  
<213> Zea mays

<400> 78

ctcttcacct cggagtctgt gaacgagga caccctgaca agctctgtga ccaggctctca 60  
gatgccgttc ttgacgcttg ctttgctgag gaccctgaca gcaagggttc ttgtgagacc 120  
tgcaccaaga ccaacatggt catggtcttt ggtgagatca ccaccaaggc caatgttgac 180  
tacgagaaga ttgtcagga gacctgccgc aacattgggt ttgtgtcaaa cgatgttggg 240  
cttgacgccg accactgcaa gtgctcgtga acattgagca gcagtcccct gatattg 297

<210> 79  
<211> 448  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<400> 79

```
ttggttnagat caccaccaag gccaatgttg actacganaa gattgtnagg ganacctgtc 60
gcnacattgg ttttgtgtca aacgatgttg ggcttgacgc cgaccactgc aagggtgctcg 120
tgaacattna gcagnagtnc cctgatattg ctcanngtgt gcatggccac ttnaccaanc 180
gccccganga gattgganct ggtgaccagg gacacatggt cgggtatgcg accgatgaga 240
cccctnagtt gatgcccctc agccatgtcc ttgccaccaa gctaggtgct cgtctnaccg 300
aggtncncaa gaaccggaac ctgccnctgg ctcanngcctg atngngaagac cnatgtgaca 360
gtcnantnnc gnaatgaagg gtggtgccat tgnccccatc ctngtcaaca ccgttcttat 420
ttcaaccaag tnnagcgagg acaatgac 448
```

<210> 80

<211> 287

<212> DNA

<213> Zea mays

<400> 80

```
caccgtcctc atctccaccc agcacgacga gacagtgacc aatgatgaga tcgctgctga 60
cctgaaggag catgtcatca agcctgtcat ccctgagcag taccttgacg agaagaccat 120
cttccacctt aaccatctg gccgctttgt cattggtgga cctcacggcg atgctggcct 180
cactggccgc aagatcatca ttgacaccta cgggtggctgg ggagcccatg gtggtggcgc 240
tttctccggc aaggacccaa ccaaggttga ccgcagcgga gctatgt 287
```

<210> 81

<211> 290

<212> DNA

<213> Zea mays

<400> 81

```
gcaatgaggg tggtgccatg gtccccatcc gtgtccacac cgtcctcatc tccaccagc 60
acgacgagac agtgaccaat gatgagatcg ctgctgacct gaaggagcat gtcacaaagc 120
ctgtcatccc tgagcagtac cttgacgaga agaccatctt ccaccttaac ccatctggcc 180
gctttgtcat tgggtggacct cacggcgatg ctggcctcac tggccgcaag atcatcattg 240
acacctacgg tggctgggga gcccatggtg gtggcgcttt ctccggcaag 290
```

<210> 82  
 <211> 287  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 82

tggacgcctg cctggcgcag gaccccgaca gcaaggtggc ctgcgagacc tgcaccaaga 60  
 cgaacatggt gatggtgttc ggcgagatca ccaccaaggc gagcgtggac tacgagaaga 120  
 tcgtgcgcga cacctgccgc gagatcggn nnacctccga cgacgtgggg ctgcgagccg 180  
 accgctgcaa ggtgctggtg aacatcgagc agcagtcccc cgacatcgcg cagggcgtgc 240  
 acgggcactt cacgaagcgg cccgaggaga tcggcgccgg cgaccag 287

<210> 83  
 <211> 291  
 <212> DNA  
 <213> Zea mays

<400> 83

atgcccctca gccatgtcct tgccaccaag ctaggtgctc gtctcaccga ggtccgcaag 60  
 aacggaacct gccctggct caggcctgat gggaagacct aggtgacagt cgagtaccgc 120  
 aatgaggggtg gtgccatggt ccccatccgt gtccacaccg tcctcatctc caccagcac 180  
 gaggagacag tgaccaatga tgagatcgct gctgacctga aggagcatgt catcaagcct 240  
 gtcacccctg agcagtacct tgacgagaag accatcttcc accttaacct a 291

<210> 84  
 <211> 283  
 <212> DNA  
 <213> Zea mays

<400> 84

tgccgctgag ccacgtgctg gccaccaagc tgggcgcgcg cctcaccgag gtgcgcaaga 60  
 acggcacctg cgcttggtg aggccgatc ggcaagacct aggtgacggt ggagtacgtg 120  
 aacgagggcg gcgccatggt gccggtccgc gtgcacaccg tgctcatctc caccagcac 180  
 gaggagaccg tcaccaacga cgagatcgcc gccgacctca aggagcacgt catcaagccc 240  
 gtgatccctg agaagtacct cgacgagaag accatcttcc acc 283

<210> 85  
 <211> 274  
 <212> DNA  
 <213> Zea mays

<400> 85

```
cgtgaacgag gggcaccccg acaagctgtg cgaccaggtg tcggacgccg tgcttgacgc 60
atgcctcgcg caggaccccg acagcaaggt ggcctgcgag acctgcacca agaccaacat 120
ggtgatggtg ttcggcgaga tcacgaccaa ggcgaccgtg gactacgaga agatcgtgcg 180
cgacacctgc cgcgagatcg ggttcacctc cgacgacgtg ggcctcgaca ccgaccgctg 240
caaggtgctg gtgaacatcg agcagcagtc cccc 274
```

<210> 86  
 <211> 290  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 86

```
ggagcacgtc atcaagccag tcattccccga gcagtacctc gacgagaaga caatcttcca 60
cctcaacccg tctggccgct tcgtcatnng cggaacctcac ggcgacgctg gcctcactgg 120
ccggaagatc atcatcgaca cctacggtgg ctgggggagcc cacggcgggg gcgccttctc 180
cggcaaggac ccgaccaagg tggaccgcag cggggcctac gtcgagaggc aggctgccaa 240
gagcatcgtc gccgcgggcc tcgcccgng tgccatcgtc caggtctcct 290
```

<210> 87  
 <211> 290  
 <212> DNA  
 <213> Zea mays

<400> 87

```
gtcgacacat tcctcttcac ctggagttct gtgaacgagg gacaccctga caagctctgt 60
gaccaggtct cagatgccgt tcttgacgct tgccttgctg aggaccctga cagcaagggt 120
gcttgtgaga cctgcaccaa gaccaacatg gtcattgtct ttggtgagat caccaccaag 180
gccaatgttg actacgagaa gattgtcagg gagacctgcc gcaacattgg ttttgtgtca 240
```



aacgatgttg ggcttgacgc cgaccactgc aaggtgctcg tgaacattga 290

<210> 88  
 <211> 288  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 88

gcggccgaga gcttcctttt cacctcggag tccgtgaacg aggggcaccc cgacaagctg 60  
 tgcgaccagg tgtcggacgc cgtgcttgac gcatgcctcg cgcaggaccc cgacagcaag 120  
 gtggcctgcg agacctgcac caagaccaac atggtgatgg tgttcggcga gatcacgacc 180  
 aaggcgaccg tggactacga gaagatcgtg cgcgacacct gccgcgagat cgggttcact 240  
 ncgacgacgt gggcctcgac gccgaccgct gcaagnngct ngtgaact 288

<210> 89  
 <211> 289  
 <212> DNA  
 <213> Zea mays

<400> 89

gcgactgacg agaccctga gctgatgccc ctcagccatg gttcccatcc gtgtgcacac 60  
 agtcctcatc tctaccagc acgacgagac agtcaccaac gacgagattg ctgctgacct 120  
 gaaggagcac gtcatcaagc cagtcatccc cgagcagtac ctcgacgaga agacaatctt 180  
 ccacctcaac ccgtctggcc gcttcgtcat cggcggacct cacggcgacg ctggcctcac 240  
 tggccggaag atcatcatcg acacctacgg tggctgggga gcccacggc 289

<210> 90  
 <211> 330  
 <212> DNA  
 <213> Zea mays

<400> 90

ccctcttgcc ggtccgaat aaagagcagc agcgcaagag gtcggtagag cgagaagaag 60  
 gcaatggcgg ccgagagctt ccttttcacc tcggagtccg tgaacgaggg gcaccccgac 120  
 aagctgtgcg accaggtgtc ggacgccgtg cttgacgcat gcctcgcgca ggaccccgac 180  
 agcaaggtgg cctgcgagac ctgcaccaag accaacaatgg tgatggtgtt cggcgagatc 240

acgaccaagg cgaccgtgga ctacgagaag atcgtgcgcg acacctgccg cgagatcggg 300  
 ttcacctccg acgacgtggg cctcgacgcc 330

<210> 91  
 <211> 291  
 <212> DNA  
 <213> Zea mays

<400> 91  
 gtgctcgtct caccgaggtc cgcaagaacg gaacctgcc ctggctcagg cctgatggga 60  
 agaccaggt gacagtcgag taccgcaatg aggggtggtgc catggtcccc atcgtgtcc 120  
 acaccgtcct catctccacc cagcacgacg agacagtgc caatgatgag atcgtcgtg 180  
 acctgaagga gcatgtcatc aagcctgtca tccctgagca gtaccttgac gagaagacca 240  
 tcttcacct taacccatct ggccgctttg tcattggtgg acctcacggc g 291

<210> 92  
 <211> 285  
 <212> DNA  
 <213> Zea mays

<400> 92  
 gccagcggcc tcgcccgcg ctgcctcgtg cagggtgtcct acgccatcg cgtgccggag 60  
 cccctgtccg tgttcgtcga ctctacggc accgggacca tccccgaca ggagatccta 120  
 aagatcgtca aggagaactt cgacttcagg ccagggatga tcaccatcaa cctcgacctc 180  
 aagaagggcg gcaacagggt catcaagacc gccgcatacg gccactttgg ccgtgacgac 240  
 gccgacttca cctgggaggt ggtcaagccc ctaaagaagg catcc 285

<210> 93  
 <211> 283  
 <212> DNA  
 <213> Zea mays

<400> 93  
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 tatgcgaccg atgagacccc tgagttgatg cccctcagcc atgtccttgc caccaagcta 120  
 ggtgctcgtc tcaccgaggt ccgcaagaac ggaacctgcc cctggctcag gcctgatggg 180

aagacccagg tgacagtcga gtaccgcaat gaggggtgtg ccatgggtccc catccgtgtc 240  
cacaccgtcc tcatctccac ccagcacgac gagacagtga cca 283

<210> 94  
<211> 298  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 94

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ggcttgacgc tgaccactgc aagggtgcttg tgaacattga gcagcagtcc cctgatattg 120  
ctcaggggtgt gcacggccac ttcaccaagc gccccgagga gattggagct ggtgaccagg 180  
ggcacatgtt tgggtatgcn actgacgaga cccctgagct gatgcccctc agccatgtcc 240  
ttgccaccaa gcttggtgtc gtctcacnga aggttcgcaa gaatggaacc tgccccnt 298

<210> 95  
<211> 469  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 95

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agaaggcaat ggcgggcgag agcttccttt tcacctcgga gtccgtgaac gaggggcacc 120  
ccgacaagct gtgcnaccag gtgtcggacg ccgtgcttga cncatgcctc gcgcaggacc 180  
ccnacagcaa ggtggcctgc nagacctgca ccaanaccaa catggtgatg gtgttcggcg 240  
agatcacgac caangcgacc gtggactacg agaagatcgt gcgccgacac ctgccgcgag 300  
atcggttca ccttcgncga cgtgngccct tgactccnnc ccggtgcaag gtgctggtga 360  
acattnatca tcaatncccc gacattnttc aaggcnttca cggcacttta cgaaacggcc 420  
cnangagatc ggccggggcca acagngccac atnttcgggt ccccccca 469

<210> 96  
<211> 293  
<212> DNA  
<213> Zea mays

<223>       unsure at all n locations  
 <400>       96

aacgatgttg ggcttgacgc cgaccactgc aaggtgctcg tgaacattga gcagcagtcc   60  
 cctgattgct caggggtgtgc atggccactt caccaagcgc cccgaggaga ttggagctgg   120  
 tgaccaggga cacatgttcg ggtatgcnac cgatgagacc cctgagttga tgcccctcag   180  
 ccatgtcctt gccaccaagc taggtgctcg tctcaccgag gtccgcaaga acggaacctg   240  
 cccctggctc aggcctgatg ggaagaccca ggtgacagtc gagtaccgca aaa           293

<210>       97  
 <211>       280  
 <212>       DNA  
 <213>       Zea mays

<223>       unsure at all n locations  
 <400>       97

cggnacgntg gcgtgaacga ggggcaccca gacaagctgt gcgaccaggt gtcggacgcg   60  
 gtgctggacg cctgcctggc gcagganccc gacagcaagg tggcctgcga gacctgcacc   120  
 aagacgaaca tggatgatgt gttcggcgag atcaccacca aggcgagcgt ggactacgag   180  
 aagatcgtgc gcgacacctg ccgcgagatc gggttcacct ccgacgacgt ggggctcgac   240  
 gccgaccgct gcaagggtgct ggtgaacatc gagcagcagt                           280

<210>       98  
 <211>       285  
 <212>       DNA  
 <213>       Zea mays

<400>       98

catggtggtg gcgctttctc cggcaaggac ccaaccaagg ttgaccgcag cggagcctat   60  
 gtcgcgaggc aggctgcaa gagcatcgtc gccagcggcc ttgctcgccg cgccatcgtc   120  
 caggtgtctt acgccatcgg cgtgcccgag cctctctccg tggtcgtcga cacgtacggc   180  
 accggcgcga tccccgaaa ggagatcctc aagattgtca aggagaactt cgatttcagg   240  
 cctggcatga tcatcatcaa ccttgacctc aagaaaggcg gcaag                   285

<210>       99  
 <211>       278

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 99  
  
 aggtgacagt cgagtaccgc aatgaggggtg gtgccatggt ccccatncgt gtccacaccg 60  
 tcctcatctc caccagcac gacgagacag tgaccaatga tgagatcgct gctgacctga 120  
 aggagcatgt catcaagcct gtcatncctg agcagtacct tgacgagaag accatcttcc 180  
 accttaaccc atctggccgc tttgtcattg gtggacctca cggcgatgct ggcctcactg 240  
 gccgcaagat catcattgac acctacgggtg gctgggga 278

<210> 100  
 <211> 275  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 100  
  
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 gagcagtacc ttgacgagaa gaccatcttc caccttaacc catctggccg ctttgtcatt 120  
 ggtggacctc acggcgatgc tggcctcact ggccgcaaga tcatcattga cacctacgggt 180  
 ggctggggag cccatggtgg tggcgctttc tccggcaagg acccaaccaa ggttgaccgc 240  
 agcggancct atgtcgcaag gcaggctgcc aagag 275

<210> 101  
 <211> 291  
 <212> DNA  
 <213> Zea mays  
  
 <400> 101  
  
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 cgagaagacc atcttcacc ttaaccatc tggccgcttt gtcattggtg gacctcacgg 120  
 cgatgctggc ctactggcc gcaagatcat cattgacacc tacggtggct ggggagccca 180  
 tgggtggtggc gctttctccg gcaaggaccc aaccaagggt gaccgcagcg gagcctatgt 240  
 cgcaaggcag gctgccaaga gcatcgtcgc cagcggcttg ctgccgcgc c 291

<210> 102  
 <211> 301  
 <212> DNA  
 <213> Zea mays  
  
 <400> 102  
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 ctgacaagct ctgcgaccag gtctcagatg ctgttctgga cgcttgcctg ctgaggaccc 120  
 tgacagcaag gttgcttgcg agacctgcac caagaccaac atggatcatgg tctttggtga 180  
 gatcaccacc aaggccaatg tcgactacga gaagattgtc agggagacat gccgcaacat 240  
 tggtttcgtg tcgaacgatg tcgggcttga cgctgaccac tgcaagtgt tgtgaacatt 300  
 g 301

<210> 103  
 <211> 336  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 103  
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 aggcaatggc ggccgagagc ttccttttna cctcggagtc cgtgaaacga ggggcncccc 120  
 gacaagctgt gcgaccaggt gtcggacgcc gtgcttgacg catgcctcgc gcaggacccc 180  
 gacagcaagg tggcctgcga gacctgcacc aagaccaaca tggatgatgg gttcggcgag 240  
 atcacgacca aggcgaccgt ggactacgag aagatcgtgc gcgacacctg ccgcgagatc 300  
 ggggttcacct ccgacgacgt gggcctcgac gccgac 336

<210> 104  
 <211> 276  
 <212> DNA  
 <213> Zea mays  
  
 <400> 104  
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 cggcgggccc caggtgacg ccggcctcac cggccgcaag atcatcatcg acacgtacgg 120  
 cggctgggga gccacggcg gtggcgctt ctccggcaag gacccacca aggtggaccg 180

cagcggcgcc tacgtggcca ggcaggccgc caagagcatc gtggccagcg gtcgccccgc 240  
cgctgcctcg tgcagtgtcg tacgccatcg ctgccg 276

<210> 105  
<211> 287  
<212> DNA  
<213> Zea mays

<400> 105  
gagattggag ctggtgacca gggacacatg ttcgggtatg cgaccgatga gaccctgag 60  
ttgatgcccc tcagccatgt ccttgccacc aagctaggtg ctcgctcac cgagggtccgc 120  
aagaacggaa cctgcccctg gctcaggcct gatgggaaga cccagggtgac agtcgagtac 180  
cgcaatgagg gtggtgccat ggtcccatc cgtgtccaca ccgtcctcat ctccaccag 240  
cacgacgaga cagtgaccaa tgatgagatc gtgctgacct gaaggag 287

<210> 106  
<211> 303  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 106

accgtcctca tctccacca gcacgacgag acagtgacca atgatgagat cgctgctgac 60  
ctgaaggagc atgtcatcaa gcctgtcatc cctgagcagt accttgacga gaagaccatc 120  
ttccacctta acccatctgg ccgctttgtc attggtggac ctcacggcga tgctggcctc 180  
actggccgca agatcatcat tgacacctac ggtggctggg gagcccatgg tgggtggcgct 240  
ttctccggca aggacccaac caagttgacc gcagcgganc tatgtcgcaa ggcagctgcc 300  
aag 303

<210> 107  
<211> 279  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 107

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ttgcttgtga gacctgcacc aagaccaaca tggatcatggt ctttgggtgag atcaccacca 120  
aggccaatgt tgactacgag aagattgtna gggagacctg ccgcaacatt ggttttgtgt 180  
caaacgatgt tgggcttgac gccgaccact gcaagggtgct cgtgaacatt gagcagcagt 240  
cccctgatat tgctcagggt gtgcatggcc acttcacca 279

<210> 108  
<211> 330  
<212> DNA  
<213> Zea mays

<400> 108

ctcttctccc tcttgccggt cccgaataaa gagcagcagc gcaagaggtc ggtagagcga 60  
gaagaaggca atggcggccg agagcttctt ttccacctcg gagtccgtga acgaggggca 120  
ccccgacaag ctgtgcgacc aggtgtcgga cgccgtgctt gacgcattgcc tcgcgccagga 180  
ccccgacagc aagggtggcct gcgagacctg caccaagacc aacatgggtga tgggtgttcgg 240  
cgagatcacg accaaggcga ccgtggacta cgagaagatc gtgcgcgaca cctgccgcga 300  
gatcgggttc acctccgacg acgtgggcct 330

<210> 109  
<211> 298  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 109

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tccgcntgca caccgtgctc atctccaccc agcacgacga gaccgtcacc aangacgagn 120  
tcgcccgcgn cctcanggag cacgtcntna agcccgtcat cccgganagg tacctggacg 180  
anaagacnt cttncacctc aaccgctcgg gggcgnttcg tcntcggcgg gccccacggg 240  
gacnccggcc tnaccggccg caagntgntc ntngncacct acngcggntg gggagccc 298

<210> 110  
<211> 498  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations



<400> 110

cccctctttn gcctatccgg gccgaccac gcgncacgcg gnggctcngn gcgtatcgag 60

cccacggatt ttggcntctn ctccggcaag gacccaccn nggtgggggn gnattgggnc 120

ctaccgtcgc caggcangcc gacaagagca tngnggccag cggcctcgn cgccgntgcc 180

tcgngcaggt gtcttacgcc atcggcgtgc cggagcccct gtccgtgttc gtngactcct 240

acggcaccgg gaccatcccc gacaaggaga tcctaaagat cgtnaaggag aacttcgact 300

tcaggccagg gatggtcacc atcaacctcg acctcaagaa gggcggcaac aggttcatca 360

agaccgccgn atacggccac tttggccgt gacgacgccg acttcacctg ggaggtggtc 420

aagcccctaa agaaggcatc cgcttaagaa tgtattgnga aagttcactg gacatgaagg 480

atcatcttcc tctnggct 498

<210> 111  
 <211> 284  
 <212> DNA  
 <213> Zea mays

<400> 111

gcccgcagat caaagaagat ggcagctgtc gacacattcc tcttcacctc ggagtctgtg 60

aacgagggac accctgacaa gctctgtgac caggtctcag atgccgttct tgacgcttgc 120

cttgctgagg accctgacag caaggttgct tgtgagacct gcaccaagac caacatggtc 180

atggtctttg gtgagatcac caccaaggcc aatgttgact acgagaagat tgtcagggag 240

acctgccgca acattggttt tgtgtcaaac gatgttgggc ttga 284

<210> 112  
 <211> 328  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 112

ggcgagatca cgaccaaggc gaccgtggac tacgagaaga tcgtgcgcga cacctgccgc 60

gagatcgggt tcacctccga cgacgtgggc ctcgacgccg accgctgcaa ggtgctggtg 120

aacatcgagc agcagtcccc cgacatcgcg cagggcgtgc acgggcactt cacgaagcgg 180

cccgaggaga tcggcgcggg nnaccagggc cacatgttcg ggtacgccac cgacgagacc 240

cccgagctga tgccgctgag ccaacgtgct ggccaacaag ctgggcgcgg ggctcaccga 300  
 ngtgcgaaaa acggcaactg cgctggct 328

<210> 113  
 <211> 287  
 <212> DNA  
 <213> Zea mays

<400> 113  
 gggggcgcct tctccggcaa ggacccgacc aaggtggacc gcagcggggc ctacgtcgcg 60  
 aggcaggctg ccaagagcat cgtcgccgcc gccctcgccc gccgcgccat tgtccaggtc 120  
 tcctacgcca tcggcgtgcc cgagcccctt tcggtgttcg tggacacgta cggcaccggc 180  
 gccatccccg acaaggagat cctgaagatc gtgaaggaga acttcgactt caggcccggc 240  
 atgatcatca tcaacctcga cctcaagaaa ggcggaacg ggcgcta 287

<210> 114  
 <211> 261  
 <212> DNA  
 <213> Zea mays

<400> 114  
 cgacgccgaa ccgctgcaag gtgctggtga acatcgagca gcagtcccc gacatcgcgc 60  
 agggcgtgca cgggcacttc acgaagcggc ccgaggagat cggcgcgggc gaccagggcc 120  
 acatgttcgg gtacgccacc gacgagaccc ccgagctgat gccgctgagc cacgtgctgg 180  
 ccaccaagct gggcgcgcgc ctcaccgagg tgcgcaagaa cggcacctgc gcctggctga 240  
 ggcccgcgag caagaccag g 261

<210> 115  
 <211> 294  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 115

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 gtatgcgacc gatgagaccc ctgagttgat gccctcagc catgtccttg ccaccaagct 120

aggtgctcgt ctcaccgagg tccgcaagaa cggaanctgc ccctgggtca ggcctgatgg 180  
gaagacccag gtgacagtcg agtaccgcaa tgaggggtgg gccatgggtcc ccatccgtgt 240  
ccacaccgtc ctcatctcca cccagcacga cgagacatga ccaatgatga gatc 294

<210> 116  
<211> 318  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 116

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ttccacctca acccgtctgg ncgcttcgtc atcggcggaac ctacggcgga cgccggcctc 120  
actggccgga agatcatcat cgacacctac ggtggctggg gagccacagg cggggggcgcc 180  
ttctccgga aggacccgac caangtggac cgcagcgggg cctacgtcgc gangcaggct 240  
gccaagagca tcgtcgccgc cggcctcgcc gcnegcccat cgtccaggtc tctagcatgg 300  
gtgccgancc tatcgtgt 318

<210> 117  
<211> 256  
<212> DNA  
<213> Zea mays

<400> 117

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ggcggggccc acggtgacgc cggcctcacc ggccgcaaga tcatcatcga cacgtacggc 120  
ggctggggag cccacggcgg tggcgcttc tccggcaagg accccaccaa ggtggaccgc 180  
agcggcgccct acgtggccag gcaggccgcc aagagcatcg tggccagcgg cttcgcccgc 240  
cgctgccttc tgcaag 256

<210> 118  
<211> 275  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 118

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gaccaggtct cagatgccgt tcttgacgct tgccttgctg aggaccctga cagcaagggt 120  
gcttggtgaga cctgcaccaa gaccaacatg gtcattggtct ttggtgagat caccaccaag 180  
gncnatgttg actacgagaa gattgtcagg gagacctgcc gcaacattgg ttttgtgtca 240  
aacgatgttg ggcttgacgc cgaccactgc aagggt 275

<210> 119  
<211> 276  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 119

gtcgacacat tcctcttcac ctcgaggtct gtgaacgagg gacaccctga caagctctgt 60  
gaccaggtct cagatgccgt tcttgacgct tgccttgctg aggaccctga cagcaagggt 120  
gcttggtgaga cctgcaccaa gaccaacatg gtcattggtct ttggtgagat caccaccaag 180  
gccattgttg actacgagaa gattgtcagg gagacctgcc gcaacattgg ttttgtgtca 240  
aacgatgttg ggcttgacgc cgaccactgc aagggt 276

<210> 120  
<211> 309  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 120

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cctgagcagt accttgacga gaagaccatn ttccacctta acccatctgg ccgctttgtc 120  
attggtggac ctacggcgga tgctggcctc actggccgca agatcatcat tgacacctac 180  
ggtggctggg gagcccatgg tgggtggcgct ttctccggca aggacccaac caaggttgac 240  
cgcagcggag cctatgtcgc aangcangct gccaaagagca tcgtcgccaa cggcttgctc 300  
gccgcgccca 309

<210> 121  
<211> 267  
<212> DNA

<213> Zea mays

<400> 121

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ctcaggggtgt gcatggccac ttcaccaagc gccccgagga gattggagct ggtgaccagg 60
gacacatggtt cgggtatgcg accgatgaga cccctgagtt gatgcccctc agccatgtcc 120
ttgccaccaa gctaggtgct cgtctcaccg aggtccgcaa gaacggaacc tgcccctggc 180
tcaggcctga tgggaagacc caggtgacag tcgagtaccg caatgagggg ggtgccatgg 240
tccccatccg tgtccacacc gtcctca 267
```

<210> 122

<211> 277

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 122

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gcaaggtgct tgtgaacatt gagcagcagt cccctgatat tgctcagggg gtgcacggcc 60
acttcaccaa gcgccccgag gagattggag ctggtgacca ggggcacatg tttgggtatg 120
cgactgacga gaccctgag ctgatgcccc tcagccatgt ccttgccacc aagcttggtg 180
ctcgtctcac ggaggttcgc aagaatggaa cctgcccctg gctcaggccc gatgggaaga 240
cccagtgaca attggantac cgcaacgagg gtggccc 277
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<210> 123

<211> 264

<212> DNA

<213> Zea mays

<400> 123

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gccacatggtt cgggtacgcc accgacgaga cccccgagct gatgccgctg agccacgtgc 60
tggccaccaa gctgggcgcg cgcctcaccg aggtgcgcaa gaacggcacc tgcgcctggc 120
tgaggccccga cggcaagacc caggtgacgg tggagtacgt gaacgagggc ggcgccatgg 180
tgcccgtccg cgtgcacacc gtgctcatct ccaccagca cgacgagacc gtcaccaacg 240
acgagatcgc ccgccgacct caag 264
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<210> 124

<211> 269

<212> DNA  
 <213> Zea mays  
 <400> 124  
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 cgccgaccac tgcaaggtgc tcgtgaacat tgagcagcag tcccctgata ttgctcaggg 120  
 tgtgcatggc cacttcacca agcgccccga ggagattgga gctggtgacc agggacacat 180  
 gttcgggtat gcgaccgatg agaccctga gttgatgcc ctcagccatg tccttgccac 240  
 caagctaggt gctcgtctca ccgaggtcc 269

<210> 125  
 <211> 274  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 125  
 atgccgctga gccacgtgct ggccaccaag ctgggcgcgc gnetcaccga ggtgcgcaag 60  
 aacggcacct gcgcctggct gagggccgac ggcaagacct aggtgacggt ggagtacgtg 120  
 nacgagggcg gcgccatggt gcccgtccgc gtgcacaccg tgctcatctc cacncancan 180  
 gnnngngntng tcaccaacna cgagatcgcc gccgacctca aggagcacgt catcaagccc 240  
 gtgatccctg agaagtacct cgacgagaag acca 274

<210> 126  
 <211> 260  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 126  
 ggaccctgac agcaaggttg cttgcgagac ctgcaccaag accaacaatgg tcatggcnctt 60  
 tgggtgagatc accaccaagg ccaatgtcga ctacgagaag attgtcaggg agacatgccg 120  
 caacattggt ttcgtgtcga acgatgtcgg gcttgacgct gaccactgca aggtgcttgt 180  
 gaacattgag cagcagtccc ctgatattgc tcagggtgtg cacggccact tcaccaagcg 240  
 ccccgaggag attggagctg 260

<210> 127  
 <211> 516  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 127

gnnnaaagga gatttgatan gntttntggg gaggnanagn tnatgccgta ccggtccgga 60  
 attcccgggt cgacccacgc gtccggagaa gaccatcttc cacctcaacc cgtccgggcg 120  
 cttcgtcatc ggcgggcccc aggggtgacgc cggcctcacc ggccgcaaga tcatcatcga 180  
 cacgtacggc ggctggggag cccacggcgg tggcgccctc tccggcaagg accctaccaa 240  
 ggtggaccgc agcggcgccct acgtggccag gcaggccgnt cangagcatc gtggccagcg 300  
 gcctnccccg ccgctgnctc gtgcagggtgt cgtacgcnat cggcgtgcac ggagcccntg 360  
 tatcgtattc gtaactcgta cggaacnggn acgatncnng anaaggatat actanangat 420  
 agtgaaggag aantnntnct tnatgcnnnn gtgatnagg atnnaanntn nannngnnna 480  
 angttnnnnn nnggnnnatt nnnnantntn nnnnta 516

<210> 128  
 <211> 264  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 128

ggagcatgtc atcaagcctg tcatccctga gcagtacctt gacgagaaga ccatcttcca 60  
 ccttaaccca tctggccgct ttgtcattgg tggacctcac ggcgatgctg gcctcactgg 120  
 ccgcaagatc atcattgaca cctacgggtg ctggggagcc catggtggtg gcgctttctc 180  
 cggcaaggac ccaaccaagg ttgaccgcag cggagcctat gtcgcaangc aggctgccaa 240  
 gagcatcgtc gccagcggcc ttgc 264

<210> 129  
 <211> 270  
 <212> DNA  
 <213> Zea mays

<400> 129

caagaatgga acctgccctt ggctcaggcc cgatgggaag acccaggtga cagtggagta 60

ccgcaacgag ggtggcgcca tggttcccat ccgtgtgac acagtcctca tctctacca 120  
gcacgacgag acagtcacca acgacgagat tgctgctgac ctgaaggagc acgtcatcaa 180  
gccagtcatt cccgagcagt acctcgacga gaagacaatc ttccacctca acccgctctgg 240  
ccgcttcgtc atcggcgga ctcacggcga 270

<210> 130  
<211> 249  
<212> DNA  
<213> Zea mays

<400> 130

cacgtcatca agcccgatg ccttgagaag tacctcgacg agaagaccat cttccacctc 60  
aaccgctccg ggcgcttcgt catcgcggg cccacgggtg acgcccgcct caccggccgc 120  
aagatcatca tcgacacgta cggcggtctg ggagcccacg gcggtggcgc cttctccggc 180  
aaggaccca ccaaggtgga ccgcagcggc gcctacgtgg ccaggcaggc cgccaagagc 240  
atcgtggcc 249

<210> 131  
<211> 270  
<212> DNA  
<213> Zea mays

<400> 131

gtcatcaagc ctgtcatccc tgagcagtac cttgacgaga agaccatctt ccaccttaac 60  
ccatctggcc gctttgttat tggcggacct cacggcgatg ctggcctcac tggccgcaag 120  
atcatcattg acacctacgg tggctgggga gcccatggtg gtggcgcttt ctccggcaag 180  
gaccaacca aggttgaccg cagcggagcc tatgtcgcaa ggcaggctgc caagagcatc 240  
gtcgccagcg gccttgctcg ccgcgccatc 270

<210> 132  
<211> 265  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 132



ctgcancaag accaacaatgg tcatggtctt tggtagatc accaccaagg ccaatgttga 60  
ctacgagaag attgtcaggg agacctgccg caacattggt tttgtgtcaa acgatgttgg 120  
gcttgacgcc gaccactgca aggtgctcgt gaacattgag cagcagtccc ctgatattgc 180  
tcagggtgtg canggccact tcaccaagcg ccccgaggag attggagctg gtgaccaggg 240  
acacatgttc gggatatgca ccgat 265

<210> 133  
<211> 284  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 133

accggccgca agatcatcat cgacacgtac ggcggctggg gagccacgg cggggngcct 60  
tctccggcaa ggaccccacc aaggtggacc ncagcggcgc ctacgtggcc aggcaggccg 120  
ccaagagcat cgtngccagc ngcctcgccc gccgctgcct cgtgcagggtg tcgtacgcca 180  
tcggntgccg gagcncctgt ccgtgttcgt caactcgtac ggcaccggca cgatccccga 240  
caaggagatc ctcaagatcg tgaaggagna ttcgattcag gccg 284

<210> 134  
<211> 429  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 134

gggagacatg ccgcaacatt ggtttcgtgt cgaacgatgt cgggcttgac gctgaccact 60  
gcaaggtgct tgtgaacatt gagcagcagt ccctgatat tgctcagggt gtgcacggcc 120  
acttaccaag cgccccgagg agattggagc tggtagaccag gggcacatgt ttgggtatgc 180  
gactgacgag acccctgagc tgatgccct cagccatgtn cttgccacca agcttgggtgc 240  
tcgtctnaca aangntcgca agaaatggaa cctggcccct ggcttaagcc cgatnggnaa 300  
gaccaagtg acaagtggaa tanccgnaac caagggtggc nccatgggtt cccattcgtg 360  
tgcacacaag tccttaattt ttaccaaca ccgaccaagg ccagttancc aacgaccagg 420  
anttggcnt 429

<210> 135  
 <211> 282  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 135

atcggcgggc cccacggtga cgccggcctc accggccgca agatcatcat cgacacgtac 60  
 ggcggctggg gagcccacgg cggtggcgcn ttctccggca aggacccac caaggtggac 120  
 cgcagcggcg cntacgtggc caggcaggcc gccaaagagca tcgtngccag cngctcgnc 180  
 gccgntgcnt ngtgcagggtg tcgtacgcca tcggctgccg gagcccctgt ccgtgttngt 240  
 caactcgtac ggcngcggca cgntccccga caaggagntc tc 282

<210> 136  
 <211> 279  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 136

gtgatggtgt tcggcgagat cacgaccaag gcgaccgtgg actacgagaa gatcgtgcgc 60  
 gacacctgcc gcgagatcgg gttcacctcc gacgacgtgg gcctcgacgc cgaccgctgc 120  
 aaggtgctgg tgaacatcga gcagcagtcc cccgacatcg cgcagggcgt gcacgggcat 180  
 tcacgaagcg gcccgaggag atcggcgcg gcgaccaggg ccacatgttc gggtagcca 240  
 ccgacgagac ccccgagtga tgccgtnagc natgtgngc 279

<210> 137  
 <211> 283  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 137

ctgagaagta cctcgacgag aagaccatct tccacctcaa cccgtccggg cgcttcgtca 60  
 ttggcggggc ccaaggtgaa ggcgggctta acgggcggaa anntnntcat cganacgnan 120  
 ggcggttggg gagcccacgg cggtggcgcn ttctccggca aggacccac caaggtggac 180  
 cgcagcggcg cctacgtggc caggcaggcc gccaaagagca tcgtggccag cggcttcgcc 240

cgcngetgcc tcgtgcaggt gtcgtacgcc atcgggtgcc gga

283

<210> 138  
<211> 297  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 138

cggacntggn gaaaggagca cgtcatcaag ccagtcattcc ccgagcagta cctcgacgag 60  
annntcaatc ttccacctca acccgtcttg ccgcttcgtc atcggcgagac ctacaggcga 120  
cgctggcctc actggccgga agatcatcat cgacacctac ggtggctggg gagcccacgg 180  
cgggggagcc ttctccgga aggacccgac caaggtggac cgcagcgggg cctacgtcgc 240  
gaggcaggct gccaaagca tcgtcgccgc ggcctcgccc gccgcgatt gtccagt 297

<210> 139  
<211> 317  
<212> DNA  
<213> Zea mays

<400> 139

ctccctcttg ccggtcccga ataaagagca gcagcgcaag aggtcggtag agcgagaaga 60  
aggcaatggc ggccgagagc ttctttttca cctcgagtc cgtgaacgag gggcaccgga 120  
caagctgtgc gaccagggtg cggacgccgt gcttgacgca tgcctcgcg caggacccgga 180  
cagcaagggtg gcctgcgaga cctgcaccaa gaccaacatg gtgatggtgt tcggcgagat 240  
cagaccaag gcgaccgtgg actacgagaa gatcgtcgcg gacacctgcc gcgagatcgg 300  
gttcacctcc gacgacg 317

<210> 140  
<211> 277  
<212> DNA  
<213> Zea mays

<400> 140

cgctgcctcg tgcagggtgc gtacgccatc ggcgtggccg gagcccctgt ccgtgttcgt 60  
caactcgtac ggcaccggca cgatccccga caaggagatc ctcaagatcg tgaaggagaa 120

cttcgacttc aggcccgga tgatcagcat caacctcgac ctgaagaagg gcggcaacag 180  
gttcatcaag accgccgct acggccactt cgcccgtagac gacgccgact tcacctggga 240  
ggtggtgaag cccctcaagt tcgacaaggc atcgctt 277

<210> 141  
<211> 279  
<212> DNA  
<213> Zea mays

<400> 141

ccgagcctct ctccgtgttc gtcgacacgt acggcaccgg cgcgatcccc gacaaggaga 60  
tcctcaagat tgtcaaggag aacttcgatt tcaggcctgg catgatcatc atcaaccttg 120  
acctcaagaa aggcggcaac gggcgctacc tcaagacggc ggccctacggc cactttggaa 180  
gggacgacct tgacttcacc tgggaggtgg tgaagccact caagtcggag aaaccttctg 240  
cctaaggcgg cctttttttc agtaagaagc ttttggtgg 279

<210> 142  
<211> 263  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 142

caaggttgac cgcagcggag cctatgtcgc aaggcaggct gccaaagaca tcgtcgccag 60  
cngccttgct cgccgcgcca tcgtccagggt gtcttacgcc atcggcgtgc ccgagcctct 120  
ctccgtgttc gtcgacacgt acggcaccgg cgcgatcccc gacaaggaga tcctcaagat 180  
tgtcaaggag aacttcgatt tcaggcctgg catgatcatc atcaaccttg acctcaagaa 240  
aggcggcaac gggcgctacc tca 263

<210> 143  
<211> 287  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 143

cgatcatcaag ccagtcaccc ccgagcagta cctcgacgag aagacaatct tccacctcaa 60

cccgtctggc cgttttcgtca tcggcggacc tcacggcgac gccggcctca ctggccggaa 120  
gatcatcatc gacacctacg gtggctgggg agcccacggc gggggcgcct tctccggcaa 180  
ggacccgacc aaggtggacc gcagcggggc ctacgtcgcg aggcaggctg ccaagagcat 240  
cgtcgccgcc ggccttcgcc cgcngcgcca tcgtccaggt ctctaag 287

<210> 144  
<211> 280  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 144

ggccacttca ccaagcgccc cgaggagatt ggagctgntg accagggaca catgttcggg 60  
tatgcgaccg atgagacccc tgagttgatg cccctcagcc atgtccttgc caccaagcta 120  
ggtgctcgtc tcaccgaggt ccgcaagaac ggaacctgcc cctggctcag gcctgatggg 180  
aagacccagg tgacagtcga gtaccgcaat gagggtggtg ccatgggtccc catccgtgtc 240  
cacaccgtcc tcatctccac ccgcacgacg agacagtgc 280

<210> 145  
<211> 251  
<212> DNA  
<213> Zea mays

<400> 145

ttcacctccg acgacgtggg cctcgacgcc gaccgtgca aggtgctggt gaacatcgag 60  
cagcagtccc ccgacatcgc gcagggcgtg cacgggcact tcacgaagcg gcccgaggag 120  
atcggcgcgg gcgaccaggg ccacatgttc gggtagcca ccgacgagac ccccgagctg 180  
atgccgctga gccacgtgct ggccaccaag ctggggcgcg gcctcaccga ggtgcgcaag 240  
aacggcactg g 251

<210> 146  
<211> 270  
<212> DNA  
<213> Zea mays

<400> 146

atggtcccca tccgtgtcca caccgtcctc atctccacc agcacgacga gacagtgc 60

aatgatgaga tcgctgctga cctgaaggag catgtcatca agcctgtcat ccctgagcag 120  
 taccttgacg agaagaccat cttccacctt aacccatctg gccgctttgt cattgggtgga 180  
 cctcacggcg atgctggcct cactggccgc aagatcatca ttgacaccta cgggtggctgg 240  
 ggagcccatg gtggtggcgt ttctccggca 270

<210> 147  
 <211> 310  
 <212> DNA  
 <213> Zea mays

<400> 147

agacctgccg caacattggt tttgtgtcaa acgatgttgg gcttgacgcc gaccttgca 60  
 aggtgctcgt gaacattgag cagcagtccc ctgatattgc tcaggggtgtg catggccact 120  
 tcaccaagcg ccccgaggag attggagctg gtgaccaggg acacatgttc gggatatgca 180  
 ccgatgagac ccctgagttg atgcccctca gccatgtcct tgccaccaag ctaggtgctc 240  
 gtctcaccga ggtccgcaag aacggaactg cccctggctc agcctgatgg gaagaccagt 300  
 gacagtcgag 310

<210> 148  
 <211> 292  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 148

ccaggtctcc tacgccatcg gcgtgcccga gcccctttcg gtgttcgtgg acacgtacgg 60  
 caccggcgcg atccccgaca aggagatcct gaagatcgtg aaggagaact tcgacttcag 120  
 gcccggcacg atcatcatca acctcgacct caagaaaggc ggcaacgggc gctacctcaa 180  
 gacggcgggc tacgggcact ttgggagggg cgaccccgac ttcacctggg aggtggtgaa 240  
 gcccctcaag gcggagaagc cgtcttctgc atgaggcgcc tcctctgttt ng 292

<210> 149  
 <211> 279  
 <212> DNA  
 <213> Zea mays

<223>        unsure at all n locations  
 <400>        149

aggtgacagt cgagtaccgc aatgaggggtg gtgccatggt ccccatgcgt gtccacaccg    60  
 tcctcatact ccaccagca cgacgagaca gtgaccaatg atgagatcgc tgctgacctg    120  
 aaggagcatg tcatcaagcc tgtcatcctg agcagtacct tgacgagaag accatcttcc    180  
 accttaacnc atctggccgc tttgtcattg gtggacctca cggcgatgct ggcctcactg    240  
 gccgcaagat catcattgac acctacggtg gctggggag                                279

<210>        150  
 <211>        322  
 <212>        DNA  
 <213>        Zea mays

<223>        unsure at all n locations  
 <400>        150

ctccctcttg ccggtcccgataaaagagca gcagcgcaag aggtcggtag agcgagaaga    60  
 aggcaatggc ggccgagagc ntccttttca cctcggagtc cgtgaacgag gggcaccocg    120  
 acaagctgtg cgaccaggtg tcggacgccg tgcttgacgc atgcctcgcg caggaccocg    180  
 acagcaaggt ggcctgagag acctgcacca agaccaacat ggtgatggtg ttcggcgaga    240  
 tcacgaccaa ggcgaccgtg gacnacgaga agatcgtgcg cgacacctgc cgcgagatcg    300  
 ggttcactcc gacgacgtgg gc                                                        322

<210>        151  
 <211>        283  
 <212>        DNA  
 <213>        Zea mays

<400>        151

gaataaagag cagcagcgca agaggtcggg agagcgagaa gaaggcaatg gcggccgaga    60  
 gcttcctttt cacctcggag tccgtgaacg aggggcaccc cgacaagctg tgcgaccagg    120  
 tgtcggacgc cgtgcttgac gcatgcctcg cgcaggaccc cgacagcaag gtggcctgcg    180  
 agacctgcac caagaccaac atggtgatgg tggtcggcga gatcacgacc aaggcgaccg    240  
 tggactacga gaagatcgtg cgcgacacct gccgcgagat cgg                                283

<210>        152

<211> 316  
 <212> DNA  
 <213> Zea mays

<400> 152

cgtttgcctc ttctccctct tgccgggtccc gaataaagag cagcagcgca agaggtcggt 60  
 agagcgagaa gaaggcaatg gcggccgaga gcttcctttt cacctcggag tccgtgaacg 120  
 aggggcaccc cgacaagctg tgcgaccagg tgtcggacgc cgtgcttgac gcatgcctcg 180  
 cgcaggaccc cgacagcaag gtggcctgcg agacctgcac caagaccaac atggtgatgg 240  
 tgttcggcga gatcacgacc aaggcgaccg tggactacga gaagatcgtg cgcgacacct 300  
 gccgcgagat cggggt 316

<210> 153  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 153

gcatggccac ttcaccaagc gccccgagga gattngagct ggtgaccagg gacacatggt 60  
 ccgggtatgc gaccgatgag acccctgagt tgatgcccct cagccatgtc cttgccacca 120  
 agctaggtgc tcgtctcacc gaggtccgca agaacggaac ntgcccctgg ctcagggtcg 180  
 atgggaagac ccaggtgaca gtcgagtacc gcaatgaggg tggtgccatg gtccccatcc 240  
 gtgtccacac cgtcctcatc tccaccagc acgacga 277

<210> 154  
 <211> 272  
 <212> DNA  
 <213> Zea mays

<400> 154

tgtcatcaag cctgtcatcc ctgagcagta ccttgacgag aagaccatct tccaccttaa 60  
 cccatctggc cgctttgtca ttggtggacc tcacggcgat gctggcctca ctggccgcaa 120  
 gatcatcatt gacacctacg gtggctgggg agcccatggt ggtggcgctt tctccggcaa 180  
 ggaccaacc aaggttgacc gcagcggacc tatgtcgcaa ggcaggctgc caagagcatc 240  
 gtcgccagcg gccttgctcg ccgcgccatc gt 272



<210> 155  
 <211> 297  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 155

ccctcttgcc ggtcccgaat aaagagcagc agcgcaagag gtcggtagag cgagaagaag 60  
 gcaatggcgg ccgagagctt ccttttcacc tcggagtccg tgaacgaggg gcaccccgac 120  
 aagctgtgcg accaggtgtc ggacnccgtg cttgacgcat gcctcgcgca ggaccccgac 180  
 agcaaggtgg cctgcgagac ctgcaccaag accaacaatgg tgatggtgtt cggcgagatc 240  
 acgaccaagg cgaccgtgga ctacgagaag atcgtgcgcg acacctgccg cgagatc 297

<210> 156  
 <211> 267  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 156

gtcggtagag cgagaagaag gcaatggcgg ccgagagctt ccttttcacn tcggagtccg 60  
 tgaacgaggg gcaccccgac aagctgtgcg accaggtgtc ggacgccgtg cttgacgcat 120  
 gcctcgcgca ggaccccgac agcaaggtgg cctgcgagac ctgcaccaag accaacaatgg 180  
 tgatggtgtt cggcgagatc acgaccaagg cgaccgtgga ctacgagaag atcgtgcgcg 240  
 acacctgccg cgagatcggg ttcacct 267

<210> 157  
 <211> 261  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 157

aggagattgg agctggtgac caggggcaca tgtttgggta tgcgactgac gagaccctg 60  
 agctgatgcc cctcagccat gtccttgcca ccaagcttgg tgctcgtctc acggaggttc 120  
 gcaagaatgg aacctgcccc tggctcaggc ccgatgggaa gaccaggtg acagtggagt 180

accgcaacga ggggtggcgcc atggttccca tccgtgtgca cacagtcntc atctctaccc 240  
 agcacgacga gacagtcacc a 261

<210> 158  
 <211> 288  
 <212> DNA  
 <213> Zea mays

<400> 158  
 gcccctcagc catgtccttg ccaccaagct aggtgctcgt ctcaccgagg tccgcaagaa 60  
 cggaacctgc ccctggctca ggctgatgg gaagaccag gtgacagtcg agtaccgcaa 120  
 tgagggtggt gccatggtcc ccatccgtgt ccacaccgtc ctcatctcca cccagcacga 180  
 cgagacagtg accaatgatg agatcgctgc tgacctgaag gagcatgtca tcaagcctgt 240  
 catccctgag cagtacttga cgagaagaca ttttccactt aaacccat 288

<210> 159  
 <211> 311  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 159

cttctccctc ttgccgttcc cgaataaaga gcagcagcgc aagaggtcgg tagagcgaga 60  
 agaaggcaat ggcggccgag agcttcnttt tcacntcgga gtccgtgaac gaggggcacc 120  
 ccgacaagct gtgcgaccag gtgtcggacg ccgtgcttga cgcatgcctc gcgcaggacc 180  
 ccgacagcaa ggtggcntgc gagacntgca ccaagaccaa cntggtgatg gtgttcggcg 240  
 agatcacgac caaggcgacc gtggactacg agaagatcgt gcgcgacacc tgccgcgaga 300  
 tcgggttcac t 311

<210> 160  
 <211> 267  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 160

cggacgctgg ngcggtgggc ccttctccgg caaggacccc accaaggtgg accgcagcgg 60

cgctaactg ggccaggcag gccgccaaga gcatcgtggc cagcggcctc gcccgccgct 120  
gcctcgtgca ggtgtcgtac gccatcggct gccggagccc ctgtccgtgt tcgtcaactc 180  
gtacggcacc ggcacgatcc ccgacaagga gatcctcaag atcgtgaagg agaacttcga 240  
cttcaggccc gggatgatca gcatcaa 267

<210> 161  
<211> 284  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 161

agctgtcgac acattcctct tcacctcgga gtctgtgaac gagggacacc ctgacaagct 60  
ctgtgaccag gtctcagatg ccgttcttga cgcttgccct gctgaggacc ctgacagcaa 120  
ggttgcttgt gagacctgca ccaagaccaa cattcancat ggtcttttgt gagatcacca 180  
ccaaggccaa tgttgactac gagaagattg tcaggagagac ctgccgcaac attgggtttg 240  
tgtcaaacga tgttggttg acgccgacca ctgcaagggtg ctcg 284

<210> 162  
<211> 237  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 162

ccatcttcca cctcaaccg tccgggcgct tcgtcatcgg cgggccccac ggtgacgcg 60  
gcctcaccgg ccgcaagatc atcatcgaca cgtacggcgg ctggggagcc cacggcggtg 120  
gcgccttctc cggcaaggac cccaccaagg tggaccgcag cggcgcctac gtggccaggc 180  
aggccgccaa gagcatcgtg gccagcggcc tcgccgccg ctgcctcttg naggttt 237

<210> 163  
<211> 236  
<212> DNA  
<213> Zea mays

<400> 163

acctgcgcct ggctgaggcc cgacggcaag acccaggtga cggaggagta cgtgaacgag 60

ggcggcgcca tgggtgccgt ccgctgcac accgtgctca tctccacca gcacgacgag 120  
accgtcacca acgacgagat cgccgccgac ctcaaggagc acgtcatcaa gcccgatgatc 180  
cctgagaagt acctcgacga gaagaccatc ttccacctca acccggtccgg gcgctt 236

<210> 164  
<211> 272  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 164

ggtggacctc acggcgatgc tggcctcact ggccgcaaga tcatcattga cacctaögg 60  
ggctggggag cccatggtgg tggcgctttc tccggcaagg acccaaccaa ggttgaccgc 120  
agcggagcct atgtcgcaag gcaggctgcc aagagcatcg tcgccagcgg ccttgctcgc 180  
cgcgccatcg tccagggtgc ttacgccatc ggntggcccg agcctctctc cgtgttcgtc 240  
gacacgtacg gcaccggcgc gatccccgac aa 272

<210> 165  
<211> 258  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 165

ccaagctagg tgctcgtctc accgaggncc gcaagaacgg aacctgcccc tggctcaggc 60  
ctgatgggaa gaccaggtg acagtcgagt accgcaatga gggtggtgcc atggtcccca 120  
tccgtgtcca caccgtcctc atctccacc agcagcagca gacagtgacc aatgatgaga 180  
tcgctgctga cctgaaggag catgtcatca agcctgtcat ccctgagcag taccttgacg 240  
agaagaccat cttccacc 258

<210> 166  
<211> 298  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 166

tctccctctt gccggtcccg aataaagagc agcagcgcaa gaggtcggta gagcgagaag 60

aaggcaatgg cggccgagag cttccttttc acctcggagt ccgtgaacga ggggcacccc 120  
gacaagctgt gcgaccaggt gtcggacgcc gtgcttgacg catgcntcgc gcaggacccc 180  
gacagcaagg tggcctgcga gacctgcacc aagaccaaca tggatgatggg gttcggcgag 240  
atcacgacca aggcgaccgt ggactacgag aagatcgtgc gcgacacctg ccgcgaga 298

<210> 167

<211> 298

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 167

cttctccctc ttgccggtcc cgaataaaga gcagcagcgc aagaggtcgg tagagcgaga 60  
agaaggcaat ggcggccgag agcttccttt tcacctcgga gtccgtgaac gaggggcacc 120  
ccgacaagct gtgcgaccag gtgtcggacg ccgtgcttga cgcattgcctc gcgcaggacc 180  
ccgacagcaa ggtggcctgc gagacctgca ccaagaccaa catggatgatg gtgttcggcg 240  
agatcacgac caaggcgacc gtggactacg agaagatent gcgcgacacc tgccgcga 298

<210> 168

<211> 265

<212> DNA

<213> Zea mays

<400> 168

ccgaggtcgg caagaacgga acctgcccct ggctcaggcc tgatgggaag acccaggatga 60  
cagtcgagta ccgcaatgag ggtgggtgcca tgggtcccat ccgtgtccac accgtcctca 120  
tctccacca gcacgacgag acagtgacca atgatgagat cgctgctgac ctgaaggagc 180  
atgtcatcaa gcctgtcatc cctgagcagt accttgacga gaagaccatc ttccacctta 240  
acccatctgg ccgtttgtca ttggt 265

<210> 169

<211> 251

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 169

cccgacaagc tgtgcgacca ggtgtcggac gccgtgcttg acgcatgcct cgcgcaggac 60  
 ccgacagca aggtggcctg cgagacctgc accaagacca acatggtgat ggtgttcggc 120  
 gagatcacga ccaaggcgac cgtggactac gagaagatcg tgcgcgacac ctgccgcgag 180  
 atcgggttca cctccgacga cgtgggcctc gacgccgacc gctgcaagga ngctggtgaa 240  
 catcgagcag c 251

<210> 170  
 <211> 305  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 170

ctcttgccgg tcccgaataa agagcagcag cgcaagaggt cggtagagcg agaagaaggc 60  
 aatggcggcc gagancttcc ttttnanctc ggaatncgtg aacgaggggc ancccgacaa 120  
 gctgtgcgac caggtgtcgg acgccgtgct tgacgnatgc ctgcgcgagg accccgacag 180  
 caaggtggcc tgcgagacct gcaccaagac caacatggtg atggtgttcg gcgagatcac 240  
 gaccaaggcg accgtggact acgagaagat cgtgcgcnac acctgccgag agatcgggtt 300  
 cactc 305

<210> 171  
 <211> 267  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 171

cntacggtgg ctggggagcc cacggcgggg gcgccttctc cggcaaggac ccgaccaagg 60  
 tggaccgcag cggggcctac gtncngnggc aggctgccaa gagcatcgtc gccgccggcc 120  
 tcgcccgcg tgccatcgtc caggtctcct acnccatcgg cgtgcccgan cccctgtcgg 180  
 tgttcgtgga cacgtacggc accggcgcgga tccccgacaa ggagatcctg aagatcgtga 240  
 aggagaactt cgacttcagg cccggca 267

<210> 172  
 <211> 250

<212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 172

ccaatgatga gatcgctgct gacctgaagg agcatgtcat caagcctgtc atccctgagc 60  
 agtaccttga cgagaagacc atcttccacc ttaacccatc tggccgcttt gtcattgggtg 120  
 gacctcacgg cgatgctggc ctactggcc gcaagatcat cattgacacc tacgggtggct 180  
 ggggagccca tgggtggtggc gctttctccg gcaaggaccc aaccaagggt gaccgcagcg 240  
 ganctatgtc 250

<210> 173  
 <211> 304  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 173

ctcctccctc ctgccgggtc cttataaag agcagcagcg caanggttg gtagancgag 60  
 cgagaagaag gcaatggcgg cggagagctt cctgttcacc tcggagtccg tgaacgaggg 120  
 gcacccagac aagctgtgcg accaggtgtc ggacgcggtg ctggacgcct gcctggcgca 180  
 ggaccccgac agcaaggtgg cctgcgagac ctgcaccaag acgaacatgg tgatggtggt 240  
 cggcgagatc accaccaagg cgagcgtgga ctacgagaag atcgtgcgcg acacctgccg 300  
 cgag 304

<210> 174  
 <211> 328  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 174

catccgtttg cctcttctcc ctcttgccgg tcccgaataa agagcagcag cgcaagaggt 60  
 cggtagagcg agaagaaggc aatggcgggc gagagcttcc ttttcacctc ggagtccgtg 120  
 aacgangggc accccgacaa gctgtgcgaa ccaggtgtcg gacgccgtgc ttgacgcatg 180  
 cctcgcgcag gaccccgaca gcaangtggc ctgcgagacc tgcaccaaga ccaacatggt 240

gatggtgttc ggcgagatca cgaccaaggc gaccgtggac tacgagaaga tcgtgcgcga 300  
cacctgccgc gagatcgggt tcactccg 328

<210> 175  
<211> 297  
<212> DNA  
<213> Zea mays

<400> 175  
tctccctctt gccggtcccg aataaagagc agcagcgcaa gaggtcggta gagcgagaag 60  
aaggcaatgg cggccgagag ctcccttttc acctcggagt ccgtgaacga ggggcacccc 120  
gaacaagctg tgcgaccagg tgtcggacgc cgtgcttgac gcatgcctcg cgcaggaccc 180  
cgacagcaag gtggcctgcg agacctgcac caagaccaac atggtgatgg tgttcggcga 240  
gatcacgacc aaggcgaccg tggactacga gaagatcgtg cgcgacacct gccgcga 297

<210> 176  
<211> 275  
<212> DNA  
<213> Zea mays

<400> 176  
agatgccgtt cttgacgctt gccttgctga ggaccctgac agcaagggtt cttgtgagac 60  
ctgcaccaag accaacaatgg tcatggtctt tggtagatc accaccaagg ccaatgttga 120  
ctacgagaag attgtcaggg agacctgccg caacattggt tttgtgtcaa acgatgttgg 180  
gcttgacgcc gaccactgca aggtgctcgt gaacattgag cagcagtccc ctgatatgct 240  
caggggtgtgc atggccattc accaagcgcc ccgag 275

<210> 177  
<211> 534  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 177

gaggnagctt tnannggggn ttaagggnat ttttaaacc tnnnttgnat tcccgggtcg 60  
acccacgcgt ccgcttgccg gtcccgaata aagagcagcn ncgcaagagg tcggtagagc 120  
gagaagaagg caatggcggc cgagagcttc cttttcacct cggagtccgt gaacgagggg 180



caccccgaca agctgtgcga ccaggtgtcg gacgccgtgc ttgacgcatg cctcgcgag 240  
gaccccgaca gcaaggtggc ctgagagacc tgcaccaaga ccaacatggt gatggtgttc 300  
ggcgagatca cgaccaaggc gaccgtggac tacgagaaga tcgtgcgga cacctnccg 360  
cgagatcggg ttcacctttc gacgacntgg gccttgacgc ccaccgggtt caaggtgctt 420  
gtgnacattg agcaagaatt ccccgaaatt gngcaaggcg ttcaccggca ctttacgaac 480  
cggcccnagg aagatcggnc cggccnacca nggncaattt tttgggtccc cccc 534

<210> 178  
<211> 248  
<212> DNA  
<213> Zea mays

<400> 178  
gatgccctc agccatgtcc ttgccaccaa gcttgggtgct cgtctcacgg aggttcgcaa 60  
gaatggaacc tgcccctggc tcaggcccga tgggaagacc caggtgacag tggagtaccg 120  
caacgagggg ggcgccatgg ttcccatccg tgtgcacaca gtcctcatct ctaccagca 180  
cgacgagaca gtcaccaacg acgagattgc tgctgacctg aaggagcacg tcatcaagcc 240  
agtcatcc 248

<210> 179  
<211> 302  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 179

ctcctccctc ctgccgggtc cttaataaag agcagcagcg caagagggtg gtagagcgag 60  
cgagaagaag gcaatggcgg cggagagcnt cctgttcacc tcggagtccg tgaacgaggg 120  
gnaccagac aagctgtgcg accaggtgtc ggacgcggtg ctggacgcct gcctggcgca 180  
ggaccccgac agcaaggtgg cctgagagac ctgcaccaag acgaacatgg tgatggtgtt 240  
cggcgagatc accaccaagg cgagcgtgga ctacgagaag atcgtgcgcg acacctgccg 300  
cg 302

<210> 180

<211> 281  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 180

angtctccta cgccatcggc gtggcccgan cccctgtcgg tgttcgtgga cacgtacggc 60  
 accggcgcgga tccccgacaa ggagatcctg aagatcgtga aggagaactt cgacttcagg 120  
 cccggcatga tcatcatcaa cctcgacctc aagaaaggcg gcaacgggcg ctacctcaag 180  
 acggcggcct acgggcactt tgggaggggac gaccccgact tcacctggga aggtggtgaa 240  
 gcccctcaag gcggagaagc cgtcttctgc atgaggcgcn t 281

<210> 181  
 <211> 269  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 181

gacacattcc tcttcacctc ggagtctgtg aacgaggggac accctgnana agctctgtga 60  
 ccagggtctca gatgccgttc ttgacgcttg ccttgctgag gaccctgaca gcaagggttg 120  
 ttgtgagacc tgcaccaaga ccaacatggt catggtcttt ggtgagatca ccaccaaggc 180  
 caatgttgac gccgagaaga ttgtcaggga gacctgccgc aacattgggt ttgtgtcaaa 240  
 cgatgttggg cttgacgcng accatgcaa 269

<210> 182  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 182

ccctcttgcc ggtcccgaaat aaagagcagc agcgcaagag gtcggtagag cgagaagaag 60  
 gcaatggcgcg ccgagagctt ccttttcacc tcggaanccg tgaacgaggg gcaccccgac 120  
 aagctgtgcg accagggtgtc ggacgccgtg cttgacgcat gcctcgcgca ggaccccgac 180  
 agcaagggtgg cctgcgagac ctgcaccaag accaacadtg tgatggtgtt cggcgagatc 240  
 acgaccaagg cgaccgtgga ctacgagaag atcgtgcgcg acacct 286

<210> 183  
 <211> 240  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 183

gcgcgacacc tgccgcgaga tcgggttcac ctccgacgac gtgggcctcg acgccgaccg 60  
 ctgcaagggtg ctggtgaaca tcgagcagca gtcccccgac atcgcgcagg gcgtgcacgg 120  
 gcacttcacg aagcggcccg aggagatcgg cgcgggagac cagggccaca tgttcgggta 180  
 cgncccgac gagacccccg agctgatgcc gctgagccac gtggtggcca ccaagctggg 240

<210> 184  
 <211> 250  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 184

cctgagcagt accttgacga gaagaccatc ttccacctta acccatctgg ccgctttgtc 60  
 attggtggac ctacggcgga tgctggcctc actggccgca agatcatcat tgacacctac 120  
 ngtggctggg gagcccatgg tgggtggcgt ttctccggca aggacccaac caaggttgac 180  
 cgcagcggag cctatgtcgc aaggcaggct gccaaagagca tcgtcgccag cggccttgct 240  
 cgccgcgcca 250

<210> 185  
 <211> 305  
 <212> DNA  
 <213> Zea mays

<400> 185

gcctcttctc ctccctcctg ccgggtcctt aataaagagc agcagcgcaa gaggttggtg 60  
 gagcgagcga gaagaaggca atggcgggcg agagcttctt gttcacctcg gagtccgtga 120  
 acgaggggga cccagacaag ctgtgcgacc aggtgtcgga cgcggtgctg gacgcctgcc 180  
 tggcgagga ccccgacagc aaggtggcct gcgagacctg caccaagacg aacatggtga 240  
 tgggtgttcg cgagatcacc accaaggcga gcgtggacta cgagaagatc gtgcgcgaca 300

cctgc 305

<210> 186  
 <211> 305  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 186

cgacagcaga gngggcnngc gagacctgca ccaagaccaa catggtgatg ttgttcggcg 60  
 agatcacgac caaggcganc gtggactacg agaagatcgt gcgcgacacc tgatcgcgag 120  
 atcgggttca cctcccgacg acgtgggcct cgacgccgac cgctgcnagg ngctggtgaa 180  
 natcgagcan cagtcnccccg acatcgcgca ngcntgcacg ggcacttcac naagcgnccc 240  
 gangagatcg ncgcggncta ccatnngcac atgttcgggt acncnaccna nnagacnnnc 300  
 gagct 305

<210> 187  
 <211> 274  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 187

ccttgccacc aagcttgggtg ctggtctcac ggaggttcgc aagantggaa cctgcccctg 60  
 gctcaggccc gntgggaaga ccaggtgac agtggagtac cgcaacgagg gtggcgccat 120  
 ggttcccatc cgtgtgcaca cagtcctcat ctctaccag cagcagcaga cagtcancaa 180  
 cgacgagatt gctgctgacc tgaaggagca cgtcatcaag ccagtcatcc ccgagnagnn 240  
 acctcgacga gaagacaatc ttccacanac tnna 274

<210> 188  
 <211> 232  
 <212> DNA  
 <213> Zea mays

<400> 188

agcacgtcat caagccagtc atccccgagc agtacctcga cgagaagaca atcttccacc 60  
 tcaacccgtc tggccgcttc gtcatcggcg gacctcacgg cgacgctggc ctactggcc 120

ggaagatcat catcgacacc tacggtggct ggggagccca cggcgggggc gccttctccg 180  
gcaaggaccc gaccaaggtg gaccgcagcg gggcctacgt cgcgaggcag gc 232

<210> 189  
<211> 243  
<212> DNA  
<213> Zea mays

<400> 189  
gccctcagc catgtccttg ccaccaagct tgggtgctcgt ctcacagagg ttcgcaagaa 60  
tggaacctgc ccctggctca ggcccgatgg gaagaccag gtgacagtgg agtaccgcaa 120  
cgagggtggc gccatggttc ccatccgtgt gcacacagtc ctcatctcta cccagcacga 180  
cgagacagtc accaacgacg agattgctgc tgacctgaag gagcacgtca tcaagccagt 240  
cat 243

<210> 190  
<211> 290  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 190

ccctcttgcc ggtcccgaat aaagancagc agcgcaagag gtcggtagag cnagaagaan 60  
gcaatggcgg ccgagagctt ccttttcacc tcggagtccg tgaacgaggg gcaccccgac 120  
aagctgtgcg accaggtgtc ggacgccgtg cttgacgcat gcctcgcgca ggaccccgac 180  
ancnaggtgg cctgcgagac ctgcaccaag accaacaatgg tgatggtgtt cggcnagatc 240  
acgaccaagg cgaccgtgga ctacnagaag atcgtgcgcg acacctgccg 290

<210> 191  
<211> 266  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 191

gncacattcc ncttcacctc ggngtctgtg ancgaggac accctgacna gctctgtgac 60  
caggtctcag atgccgttct tgacgcttgc cttgctgagg ancctgacag caaggttgct 120

tgtgagacct gcaccaagac caacatggtc atggtctttg gtgagatcac caccaaggcc 180  
aatgttgact acgagangat tgtcaggag acctgccgca acattggttt tgtgtcaaac 240  
gatgttgggc tgacgccgac cactgc 266

<210> 192  
<211> 276  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 192

gtgccatggt ccccatccgt gtccacaccg tcctcatctc caccagcac gacgagacag 60  
tgaccaatga tgagatcgct gctganctga aggagcatgt catcaagcct gtcacccctg 120  
agcagtacct tgacgagaag accatcttcc acttaaccca tctgcccgtt ttgtcattgg 180  
tggacctcac ggcgatgctg gcctcactgg ccgcaagatc atcattgaca ctacggtggc 240  
tggggagccn atgntgtggc gtttncnggg aaggcc 276

<210> 193  
<211> 292  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 193

anggtggctg gggagcccat ggtggtggcg ctttctccgg caaggaccca accaagggtg 60  
acngcagcgg agcctatgtn cgcaaggcag gctgccaaga gcatcgtcgc cagcggcctt 120  
gctcgccgcg ccatcgtcca ggtgtcttac gccatcggcg tgcccagacc tctctccgtg 180  
ttcgtcgaca cgtacggcac cggcgcgac cccgacaagg agatcctcaa gattgtcaag 240  
gagaattcga tttcaggcct ggcgatgatc catcaacctt gactcaagaa gg 292

<210> 194  
<211> 226  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 194

ctacgagaag atcgtgcgcg acacctgccg cgagatcggg ttcacctccg acgacgtggg 60  
cctcgacgcc gaccgctgca aggtgctggt gaacatcgag cagcagtccc ccgacatcgc 120  
gcagggcgctg cacgggcact tcacgaagcg gcccgaggag atcggcgcgg gcgaccaggg 180  
ccacatgttc gggtagcca ccgacgagac ncccgagctg atgcng 226

<210> 195  
<211> 289  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 195

cttcnccctc ttgccggtcc cgaataaaga gcagcagcgc aagaggncgg tagagcgaga 60  
agaaggcaat ggcggccgag agcttccttt tcacctcgga gtccgtgaac gaggggcacc 120  
ccgacaagct gtgcgaccag gtgtcggacg ccgtgcttga cgcattgcctc gngcaggacc 180  
ccgacagcaa ggtggcctgc gagacctgca ccaagaccaa catggtgatt gtgttcggcg 240  
agatcacgac canggcgacc gtggactacg agaagatcgt gcgcnacac 289

<210> 196  
<211> 300  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 196

cgcctcttct cctccctcct gccgggtcct taataaagag cagcagcgca agnggttggt 60  
agagcgagcg agaagaaggc aatggcgggc gagagcttcc tgttcacctc ggagtccgtg 120  
aacgaggggc acccagacaa gctgtgcgac caggtgtcgg acgcggtgct ggacgcctgc 180  
ctggcgcagg acccgacag caaggtggcc tgcgagacct gcaccaagac gaacatggtg 240  
atggtgttcg gcgagatcac caccaaggcg agcgtggact acgagaagat cgtgcgcgac 300

<210> 197  
<211> 284  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 197

ccctcttgnc ggtcccgaat aaagagcagc agcgcaagag gtcgntagag cgagaagaag 60  
gcaatggcgg ccgagagctt ccttttcacc tcggagtccg tgaacgaggg gcaccccgac 120  
aagctgtgcg accaggtgtc ggacgccgtn cttgangcat gcctcgcgca ggaccccgac 180  
agcaaggtgg cctgcgagac ctgnaccaag acnaacatgg tgatggtgtt cggcgagatc 240  
acgaccaagg cgaccgtgga ctacgagaag atcgtgcgcg acac 284

<210> 198  
<211> 282  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 198

gtcccgaata aagagcagca gcgcaagang tcggtagagc ganaanaang caatggcggc 60  
naagagcttc cttttcacct cggagtccgt gaacgagggg cancccgaac aagctgtncg 120  
accaggtgtc ggacgccgtg cttgacgcat gcctcgcgca ggaccccgac agcaaggtgg 180  
cctgcgagac ctgcaccaag accaacaatng tgatggtgtt cggcgagatc acgaccaang 240  
cgaccgtgga ctacgagaag atcgtgcgcg acacctgccg cg 282

<210> 199  
<211> 292  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 199

acgccatcgg ntgccgganc cctgtccgt gttcgtcaac tcgtacggca ccggcacgat 60  
ccccgacaag gagatcctca agatcgtgaa ggagaacttc gacttcaggc ccgggatgat 120  
cagcatcaac ctcgacctga agaagggcgg caacaggttc atcaagaccg ngcctacgg 180  
ccacttcggc cgtgacgacg ccgacttcac ctgggaggtg gtgaagcccc tcaagttcga 240  
caaggcatcg gcttaagggtt gggantgtca tgtggacatg angatacntc ct 292

<210> 200  
<211> 291  
<212> DNA  
<213> Zea mays



<223>        unsure at all n locations  
 <400>        200

cgtttgccctc ttctccctct tgccgggtccc gaataaagag cagcagcgca agaggtcggg    60  
 agagcgagaa gaaggcaatg gcggccgaga gcttcctttt cacctcggag tccgtgaacg    120  
 angggcaccc cgacaagctg tgcgaccagg tgtcggacgc cgtgcttgac gcatgcctcg    180  
 cgcaggaccc cgacagcaag gtggcctgcg agacctgcac caagaccaac atggtgatgg    240  
 tgttcggcga gatcacgacc aaggcgaccg tggactacga gaagatcgtg g                291

<210>        201  
 <211>        337  
 <212>        DNA  
 <213>        Zea mays

<223>        unsure at all n locations  
 <400>        201

gtnttacgcn atcngcaggc ccnagnntct ctncgtgttc gtcgacacgt anggcanccg    60  
 cgngatnncn ganaaggaga tcctcaagat tgtnaaggng aactnngatt tcaggcctgg    120  
 catgatcatc atcaaccttg acctcaagan aggcggnaac gggcgctacc tcaagacggc    180  
 ggattanggc cactttggaa gggangaccc tgacttcacc tgggatgtgg tnaagccact    240  
 caantcggag aaacctnctg cctaaggcgg nttnttttc agtaagaagc ttttggtggt    300  
 ctgctgtgct taatcatgcn ttatatggct tctacac                                337

<210>        202  
 <211>        279  
 <212>        DNA  
 <213>        Zea mays

<400>        202

cttctccctc ttgccgggtcc cgaataaaga gcagcagcgc aagaggtcgg tagagcgaga    60  
 agaaggcaat ggcggccgag agcttccttt tcacctcgga gtccgtgaac gaggggcacc    120  
 ccgacaagct gtgcgaccag gtgtcggacg ccgtgcttga cgcagcctc gcgcaggacc    180  
 ccgacagcaa ggtggcctgc gagacctgca ccaagaccaa catggtgatg gtgttcggcg    240  
 agatcacgac caaggcgacc gtggactacg agaagatcg                            279

<210> 203  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 203  
  
 aaantcacgg gtcgacncac gcgtcnnnac ngactnntac taacgcgtgg gcggacgcgt 60  
 ggggganggt gtggacacgg ntggggacca tggcagcacc ctcatcgcg taatcgactg 120  
 tcaccctga gcagtacctt gacgagaaga ccatcttcca ccttaacca tctggccgct 180  
 ttgtcattgg tggacctcac ggcgatgctg gcctcactgg ccgcaagatc atcattgaca 240  
 cctacggtgg ctggggagcc catggtggtg gcgctttctc cggcaaggac ccaaccaagg 300  
 ttgaccgcag cggagcctat gtcgcaaggc angctgcnaa gagcatcgtc gccagcgggc 360  
 cttgctcgnc cnggccatcg tccaaggtgt ncttaagcca atcggentgc ccgancctnt 420  
 ctccgntttt cgtcnaaang tta 443

<210> 204  
 <211> 290  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 204  
  
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 cgagaagaag gcaatggcgg ccgagagctt ctttttcacc tcggagtccg tgaacgangg 120  
 gcaccccgac aagctgtgcg accaggtgtc ggacgccgtg cttgacgcat gcctcgcgca 180  
 ggancccgac agcaaggtgg cctgcgagac ctgcaccaag accaacaatgg tgatggtggt 240  
 cggcgagatc acgaccaagg cgaccgtgga ctacgagaag atcgtgcgcg 290

<210> 205  
 <211> 304  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 205  
  
 cgcctctctn ccncccnccn gccgggtcct taataaagag cagcagcgca agangttggt 60

agagcgagcg agaaagaagg catggcggcg gagagcttcc tggtcacntc ggagtccgtg 120  
aacgaggggc acccagacaa gctgtgcgac caggtgtcgg acgcggtgct ggacncctgc 180  
ctggcgcagg accccgacag caaggtggcc tgcgagaccn gcaccaagac gaacatggtg 240  
atggtgttcg gcgagatcac caccaaggcg agcgtggacn acgagaagat cgtgcgcgac 300  
acct 304

<210> 206  
<211> 290  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 206

ctcttctcct ccctcctgcc gtttccttaa taaagagcag cagcgcaaga ggttggtaga 60  
gcgagcgaga agaaggcaat ggcggcggag agcttcctgt tcacctcgga gtccgtgaac 120  
gaggggcacc cagacaagct gtgcgaccag gtgtcggacg cggtgctgga cgctgcctg 180  
gcgcaggacc ccgacagcaa ggtggcctgc gagacctgca ccaagacgaa catggtgatg 240  
gtgttcggcg agatcaccac caaggcgagc gtngactacg agaagatcgt 290

<210> 207  
<211> 247  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 207

gatcaccacc aaggccaatg ttgactacga gaagattgtc agggagacct gccgcaacat 60  
tgggtttgtg tcaaacgatg ttgggcttga cgccgaccac tgcaaggtgc tcgtgaacat 120  
tgagcagcag tcccctgata ttgctcaggg tgtgcatggc cacttcacca agcgccccga 180  
ggagattgga gctggtgacc agngacacat gttcgggtat gcgaccgatg agaccctgag 240  
ttgatgc 247

<210> 208  
<211> 291  
<212> DNA  
<213> Zea mays

<223>        unsure at all n locations  
 <400>        208

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cgtttgccctc ttctccctct tgccggtccc gaataaagag cagcagcgca agaggtcggt   60
agagcgagaa gaaggcaatg gcggccgaga gcttcntttt cacctcggag tccgtgaacg  120
aggggcaccc cgacaagctg tgcgaccagg tgtcggacgc cgtgcttgac gcatgcctcg  180
cgcaggaccc cganagcaag gtggcctgcg agacctgcac caagaccaac atggtgatgg  240
tgttcggcga gatcacgacc aaggcgaccg tggactacga gaagatcgtg c           291
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<210>        209  
 <211>        428  
 <212>        DNA  
 <213>        Zea mays

<223>        unsure at all n locations  
 <400>        209

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cggacgcttg ggctttcgcg tggggtcgac acgtacgggn ccgggggggat cnccgacaag   60
gagatcctca agattgtcaa ggagaacttt tatttcaggc ctggcatgat catcatcaac  120
cttgacctca agaaaggcgg caacggggcgc tacctcaaga cggcgggacta cggccacttt  180
ggaagggacg accctgactt cacctgggag gtggtgaagc cactcaagtc ggagaaacct  240
tctgcctaag gcggcctttt ttttcagtaa gaagcttttg gtggtctngc tgtgcttaat  300
catgctttta tatggcttct acatgttggg ggncttttct tgatctgcac cgggcttatt  360
gnttggtgtg nactgcccta ataagtgggt cttatgagga ctggttctgg ttttgctgct  420
tatgtngt                                     428
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<210>        210  
 <211>        295  
 <212>        DNA  
 <213>        Zea mays

<223>        unsure at all n locations  
 <400>        210

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ccttaatnaa gngcagcagc gcaaggtagag ccgccagctt gccccagggt ggtagagcga   60
gcgagaagaa ggcaatggcg gcggagagct tcctgttcac ctcggagtcc gtgaacgagg  120
ggcaccacga caagctgtgc gaccaggtgt cggacgcggt gctggacgcc tgcttggcgc  180
aggaccccca cagcaagggt gcctgcgaga cctgcaccaa gacgaacatg gtgatgggtg  240
```

tccgngagat caccaccaag gcgagcgtgg actacgagan gntcgtgcnc gacac 295

<210> 211  
 <211> 257  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 211

ggccacttca ncaagcgtcc cgaggagatt ggagctggtg accagggacn cgtgttgcg 60  
 gtatgcgacc gatgagaccc ctgagttgnt gcccctcagc catgtccttg ccaccaagct 120  
 aggtgctcgt ctactgagg tccgcaagaa cggaacctgc ccctggctca ggcctgatgg 180  
 gaagaccnnn gtgacagtcg agtaccgcaa tgagggtggt gcnatggtcc cngnnngtgt 240  
 ccanaccgtc ctcat 257

<210> 212  
 <211> 288  
 <212> DNA  
 <213> Zea mays

<400> 212

ctcggatccg cccgaccacg accaccccg ctcgccgccc gcgagaagca gcagatcaga 60  
 gaagatggcc ggactcgaca ccttcctctt cacctcggag tccgtgaacg agggacaccc 120  
 tgacaagctc tgcgaccagg tctcagatgc tgttctggac gcttgccctg ctgaggaccc 180  
 tgacagcaag gttgcttgcg agacctgcac caagaccaac atgggtcatgg tcttttgtga 240  
 gatcaccacc aaggcaatgt cgactagaga agattgtcag ggagacat 288

<210> 213  
 <211> 467  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 213

ttnnnttcc ttnggccccn aaaggtaaaa ggactcccgg gtcgaccac gcgtcagcca 60  
 cgcgtccgcc caccgctccg cccacgcgtc cgcccacgcg tccgcccacg cgtccgcccc 120  
 ctctgcccgg gtccttaata aagagcagca gcgcaagggtg agccgccagc ttgccccggt 180

tggtagagcg agcganaaga angcaatggc ggcgganagc ttcctgttca cctcgggtcc 240  
 gtgaacgagg ggcacccaga caagctgtgc gaccaggtgt cggacgcggt gctggcgctt 300  
 gcctggcgca ggaccccgac agcaagggtgg cctgcgagac ctgcaccaag acgacatggg 360  
 gatggtgttc ggcgagatna ccaccaaggc gagcgtggac tacgaaaaag atntgcgcga 420  
 aaactggccg ccaagatcgg gttcacctcc gacgacgtgg ggctcga 467

<210> 214  
 <211> 287  
 <212> DNA  
 <213> Zea mays

<400> 214  
 cggacctggg cgttctccct cttgccggtc ccgaataaag agcagcagcg caagaggtcg 60  
 gtagagcgag aagaaggcaa tggcggccga gagcttcctt ttcacctcgg agtccgtgaa 120  
 cgaggggcac cccgacaagc tgtgcgacca ggtgtcggac gccgtgcttg acgcatgcct 180  
 cgcgaggac cccgacagca aggtggcctg cgagacctgc accaagacca acatggtgat 240  
 ggtgttcggc gagatcacga ccaaggcgat cgtggactac gagaaga 287

<210> 215  
 <211> 294  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 215

ctcttctcct ccctcctgnn gggtccttaa taaagagcag cagcgcaaga ngttggtaga 60  
 gcgancgana agaaggcaat ggcggcggag agcttcctgt tcanctcgga gtccgtgaac 120  
 gaggggcacc cagacaagct gtgcgaccag gtgtcggacg cgggtgctgga cgctgcctg 180  
 gcgcaggacc ccgacagcaa ggtggcctgc gagacctgca ccaagacgaa catggtgatg 240  
 gtgttcggcg agatcaccac caaggcgagc gtggactacn agaagatcgt gcgc 294

<210> 216  
 <211> 228  
 <212> DNA  
 <213> Zea mays

<400> 216

cggaacctgc ccctggctca ggcctgatgg gaagaccag gtgacagtcg agtaccgcaa 60

tgaggggtggg gccatgggtcc ccatccgtgt ccacaccgtc ctcatctcca cccagcacga 120

cgagacagtg accaatgatg agatcgctgc tgacctgaag gagcatgtca tcaagcctgt 180

catccctgag cagtaccttg acgagaagac catcttccac cttaaccc 228

<210> 217

<211> 268

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 217

cggcccactt caccaagcgc ccantaggag attggagctn gtgaccaggg gcacatgtan 60

gggtatgcga ctgacgagac ccctgagctg atgcccctca gccatgtcct tgccaccaag 120

cttggtgctc gtccacggag gttcgcaaga atggaacctg cccctggctc aggcccgatg 180

ggaagacca ggtgacagtg gagtaccgca agaggggtggc gccatggttc ccatccgtgt 240

gcacacagtc ctcatctcta cccagcag 268

<210> 218

<211> 263

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 218

cgcatgcctc gcgcagcacc ccgacagcaa ggtggcntgc gagacctgca ccaagaccaa 60

catggtnatg gtnttcggcg agatcacgac caaggctacc gtgggactac gagaagatcg 120

tgcgctacac ctgncgcgag atcnggttca cctccgacga cgtgggcctc gacgcctacc 180

gctncaaggt gctgggtgaac atctagcagc agtccccga catnncgcag ggcgtgcacg 240

ggcattcnng aagcggcccg agg 263

<210> 219

<211> 256

<212> DNA

<213> Zea mays





<210> 222  
 <211> 222  
 <212> DNA  
 <213> Zea mays  
  
 <400> 222  
 ccaccagca cgacgagaca gtgaccaatg atgagatcgc tgctgacctg aaggagcatg 60  
 tcatcaagcc tgtcatccct gagcagtacc ttgacgagaa gaccatcttc caccttaacc 120  
 catctggccg ctttgtcatt ggtggacctc acggcgatgc tggcctcact ggccgcaaga 180  
 tcatcattga cacctacggt ggctggggag cccatgggtg tg 222

<210> 223  
 <211> 269  
 <212> DNA  
 <213> Zea mays  
  
 <400> 223  
 ctccctcttg ccggtcccg aataagagca gcagcgcaag aggtcggtag agcgagaaga 60  
 aggcaatggc ggccgagagc ttccttttca cctcggagtc cgtgaacgag gggcaccctg 120  
 acaagctgtg cgaccaggtg tcggacgccg tgcttgacgc atgcctcgcg caggaccctg 180  
 acagcaaggt ggctgagcag acctgcacca agaccaacat ggtgatggtg ttcggcgaga 240  
 tcacgaccaa ggcgaccgtg gactacgag 269

<210> 224  
 <211> 311  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 224  
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 gggtgggaga gcgagcgaga agaaggcaat ggcgggcgag agcttcctgt tcacctctga 120  
 gtccgtgaac gangggcanc cagacaagct gtgacgaccag gtgtcggacg ctgtgctgga 180  
 ctctgcctg gcgcaggacc ccgacagcaa agtggcctgc gagacctgca ccaagacgaa 240  
 catggtgatg gtgttcggcg agatcancan caangcgagc gtggactacg agaagatngt 300  
 gcgcgacacc t 311

<210> 225  
 <211> 293  
 <212> DNA  
 <213> Zea mays

<400> 225

gtgttcgtca actcgtacgg caccggcacg atccccgaca aggagatcct caagatcgtg 60  
 aaggagaact tcgacttcag gcccgggatg atcagcatca acctcgacct gaagaagggc 120  
 ggcaacaggt tcatcaagac cgccgcctac ggccacttcg gccgtgacga cgccgacttc 180  
 acctgggagg tggatgaagcc cctcaagttc gacaaggcat cggcttaagg ttgggagtgt 240  
 cactgtggac atgaggacta ccttcctctg gctctgctgt tacctgcaag cat 293

<210> 226  
 <211> 225  
 <212> DNA  
 <213> Zea mays

<400> 226

gccggagccc ctgtccgtgt tcgtcaactc gtacggcacc ggacgatcc ccgacaagga 60  
 gatcctcaag atcgtgaagg agaacttcga cttcaggccc gggatgatca gcatcaacct 120  
 cgacctgaag aagggcgcca acaggttcat caagaccgcc gcctacggcc acttcggccg 180  
 tgacgacgcc gacttcacct gggaggtggt gaagcccctc aagtt 225

<210> 227  
 <211> 256  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 227

cacctcaacc cgtctggccg cttcgtcatc ggcggacctc acggcgacgc tggcctcact 60  
 ggccggaaga tcatcatcga cacctacggt ggctggggag cccacggcgg gggcgacctc 120  
 tccggcaagg acccgaccaa ggtggaccgc agcggggcct acgtcgcgag gcaggctgcc 180  
 aagagcatcg tcgccgccgg cctcgcccgc ngtgccatcg tcaagtnttc naaggcatcg 240  
 ggttgcccga anccct 256

<210> 228  
 <211> 281  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 228

tcatcattga cacctacngt ggctggggag cccatggtgg tggcgctttc tccggcaaga 60  
 naccaacca aggttgaccg cagcggagcc tatgtcgcaa ggcaggctgc caagagcatc 120  
 gtcgccagcg gccttgctcg ccgcgccatc gtccagggtgt cttacgccat cggntgcccg 180  
 agcctctctc cgtgttcgtc gacacgtacg gcaccggcgc gatccccgac aaggagatct 240  
 caagattgtc aaggagaatt cgatttcagg ctggcatgat c 281

<210> 229  
 <211> 290  
 <212> DNA  
 <213> Zea mays

<400> 229

ctccgcctcg accggatctc gtcggactcg gatccgcccg accaccccgc gccgccgcag 60  
 atccagagaa gatggcagct gtcgacacat tcctcttcac ctcggagtct gtgaacgagg 120  
 gacaccctga caagctctgt gaccaggctc cagatccgtt cttgacgctt gccttgctga 180  
 ggaccctgac agcaagggtg cttgtgagac ctgcaccaag accaacaatgg tcatggtctt 240  
 tggtgagatc accaccaagg ccaatgttga ctacgagaag attgtcaggg 290

<210> 230  
 <211> 318  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 230

ctntctccct ctttgccggt cccgaataaa gagcagcagc gcaagaggtc ggtagagcga 60  
 gaagaaggca atggcggccg agagcttcct tttcacctcg gagtccgtga aacgaggggc 120  
 accccgaaca agctgtgcga ccangtgtcg gacgccgtgc tttgacgcat gnctcncgca 180  
 ngagnccgac agcaangtgg cctgcgagac ctgcaccaag ancaacaatgg tgatggtgtt 240  
 cggcgagatc acgaccaagg cgaccgtgga ctacgagaag atcgtgcgcg acacctgccg 300

cgagatcggg ttcactcc

318

<210> 231  
<211> 276  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 231

attgacacct acggtggctg gggagcccat ggtggtggcg ctttctccgg caaggaccca 60  
accaagggtg accgcagcgg agcctatgtc gcaaggcagg ctgccaagag catcgtcgcc 120  
agcggccttg ctgcgcgcgc catcgtcagg gtgtcttacg ccatcggntg cccgagcctc 180  
tctccgtgtt cgtcgacacg tacggcaccg gcgcgatccc cgacaaggag atcctcaaga 240  
tgtcaaggag aattcgattt cangctggca tgatca 276

<210> 232  
<211> 244  
<212> DNA  
<213> Zea mays

<400> 232

ctcacggcga tgctggcctc actggccgca agatcatcat tgacacctac ggtggctggg 60  
gagcccatgg tgggtggcgt ttctccggca aggacccaac caaggttgac cgcagcggag 120  
cctatgtcgc aaggcaggct gccaagagca tcgtcgccag cggccttgct cgccgcgcca 180  
tcgtccagggt gtcttacgcc atcgggtgcc cgagcctctc tccgtgttcg tcgacacgta 240  
cggc 244

<210> 233  
<211> 349  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 233

atcaccacca agggccaatg ttgactacga gaagattgtc agggagacct gccgcaacat 60  
tggtttgtgt caaaacgatg ttgggcttga cgccgaccac tgcaagggtgc tcgtgaacat 120  
tgagcagcag tcccctgata ttgctcaggg tgtgcatggc cacttcacca agcgccccga 180

ggagattgga gctggtgacc agggacacat gttcgggtat gcgaccgatg agaccctgag 240  
 ttgatgccct caagccatgt cttgccacca gctagtgtc gtctcacgag gccgcaaaan 300  
 ggactgnccn ggnaanctg atggagacca gtganatcga gtacncatt 349

<210> 234  
 <211> 228  
 <212> DNA  
 <213> Zea mays

<400> 234

cgcgcatgct ggcctcactg gccgcaagat catcattgac acctacggtg gctggggagc 60  
 ccatggtggt ggcgctttct ccggcaagga cccaaccaag gttgaccgca gcggagccta 120  
 tgtcgcaagg caggctgcca agagcatcgt cgccagcggc cttgctcgcc gcgccatcgt 180  
 ccaggtgtct tacgccatcg gcgtgcccga gcctctctcc gtgttcgt 228

<210> 235  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 235

cctgacagca aggttgcttg cgagacctgc accaagacca acatggtcat ggtctttggt 60  
 gagatcacca ccaaggccaa tgtcgactac gagaagattg tcaggagagac atgccgcaac 120  
 atncgtttcg tgtcgaacga tgtcgggctt gacgctgacc actgcaagggt gcttgtnaac 180  
 attnagcagc agtcccctga tattgctcag ggtgtgcagg ccattcacna agccccccga 240  
 ggagntngag tgtgaccagg gga 263

<210> 236  
 <211> 219  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 236

gcgagaagaa ggcaatggcg gccgagagct tccttttcac ctcggagtcc gtgaacgagg 60  
 ggcancccga caagctgtgc gaccaggtgt cggacgccgt gcttgacgca tgcctcgcgc 120

aggacccccga cagcaaggtg gcctgcgaga cctgcaccaa gaccaacatg gtgatggtgt 180  
tcggcgagat cacgaccaag gcgaccgtgg actacgaga 219

<210> 237  
<211> 301  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 237

cgttcgctc ttctcctccc tcctgccggg tccttaataa agagcagcag cgcaagaggt 60  
tggtagagcg agcgagaaga aggcaatggc ggcggagagc ttctgttca cctcggagtc 120  
cgtgaacgag gggcaccacg acaagctgtg cgaccaggtg tcggacgcgg tgctggacgc 180  
ctgcctggcg caggaccccc acagcaaggt ggctgcgag acctgcacca agacgaacat 240  
ggtgatggtg ttcggcgaga tnaacaacaa aggcgagcgt ggactacgag aagatggtgc 300  
g 301

<210> 238  
<211> 439  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 238

gtcggatctg agacgagacg agttaccatc tcatcccaac tccggaacga acaagttacc 60  
atctcatccc aactccgctt cgaccggatc tcgtcggact cggatccgcc cgaccacccc 120  
gcgccgcccgc agatcaaaga agatggcagc tgtcgacaca ttctcttca cctcggagtc 180  
tgtgaacgag ggacaccctg acaagctctg tgaccaggtc tcagatgccg ttcttgacgc 240  
ttgccttgct gaggaccctg acagcaaggt tgcttgtgag acctgcacca agaccaacat 300  
gggcatggnc tttggtgaga tcaccaccaa ggccaatggt gactaccaag aagattgtca 360  
gggagnacct gccgnaacat tnggtttggg gtcaaacgat gttggcttga cgccaaccac 420  
tggaaggggc tcgtnaant 439

<210> 239  
<211> 239

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 239  
  
 aggtgacagt cgagtaccgc aatgaggggtg gtgccatggt ccccatccgt gtccacaccg 60  
 tcctcatctc caccagcac gacgagacag tgaccaatga tgagatcgct gctgacctga 120  
 aggagcatgt catcaagcct gtcacccctg agcagtacct tgacgagaag accatcttcc 180  
 accttaaccc atctggccgc nttgtcattg gtggactcac ggcgatgtgg cctcactgg 239  
  
 <210> 240  
 <211> 224  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 240  
  
 gtcagggaga catgccgcaa cattgggtttc gtgtcgaacg atgtcgggct tgacgctgac 60  
 cactgcaagg tgcttgtgaa cattgagcag cagtcccctg atattgctca ggggtgtgcac 120  
 ggccacttca ccaagcgccc cgaggagatt ggagctggtg accaggggca catgtttngg 180  
 tatncnantt acnngacacc tgagctgatg cccctcagcc atgt 224  
  
 <210> 241  
 <211> 274  
 <212> DNA  
 <213> Zea mays  
  
 <400> 241  
  
 ctcggatccg cccgaccacg accaccccgc gccgccgccg cgcagagcag cagatcagag 60  
 aagatggccg gactcgacac cttcctcttc acctcggagt ccgtgaacga gggacaccct 120  
 gacaagctct gcgaccaggt ctcagatgct gttctggacg cttgccttgc tgaggaccct 180  
 gacagcaagg ttgcttgca gacctgcacc aagaccaaca tggatcatggt ctttggtgag 240  
 atcaccacca aggccaatgt cgatacgaga agat 274  
  
 <210> 242  
 <211> 232  
 <212> DNA  
 <213> Zea mays

<223>        unsure at all n locations  
 <400>        242

ccctgacaag ctctncgacc aggnctcana tgctgttctg gacgcttgcc ttgctgagga    60  
 ccctgacagc aaggttgctt gcnagacntg caccaagacc aacatggnc a nggtcttttg    120  
 tgagatcacc accaaggcca angtcgacta cgaggagatt gtcagggaga catgccgcaa    180  
 cattggtntc gtgtcgaacg atgtcgggct tgacgctgac cactgcaagg tg                232

<210>        243  
 <211>        267  
 <212>        DNA  
 <213>        Zea mays

<223>        unsure at all n locations  
 <400>        243

cntctccctc ttgccggtcc cgantaaaga gcagcagcgc aagaggtcgg tagagcgaga    60  
 agaaggcaat ggcggccgag agcntccttt tcacctcgga gtccgtgaac gaggggcacc    120  
 ccgacaagct gtgcgaccag gtgtcggacg ccgtgcttga cgcatgcctc gcgcaggacc    180  
 ccgacagcaa ggtggcctgc gagacctgca ccaagaccaa catggtgatg gtgttcggcg    240  
 agatcacgac caaggcgacc gtggact                                                267

<210>        244  
 <211>        309  
 <212>        DNA  
 <213>        Zea mays

<223>        unsure at all n locations  
 <400>        244

cgctctntcn ccncccnccn gccgggtcct taataaagag cagcagcgca aggtgagccg    60  
 ccagcttgcc ccaggttggt agagcgagcg agaagaaggc aatggcgggc gagagcttcc    120  
 tgttcacatc ggagtcctgt aacgaggggc acccagacaa gctgtgcgac cagggtgcgg    180  
 acgcggtgct ggacgcctgc ntggcgagg accccgacag caaggtggcc tgcgagaccn    240  
 gcaccaagac gaacatggtg atggtgttcg gcgagatcac caccaaggcg agcgtggaca    300  
 acgagaaga                                                                            309

<210>        245



<211> 347  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 245  
  
 cgccctcgacc gggatctcgt cggactcgga tccgcccgc caccgccgc cgccgcagat 60  
 caaagaagat ggcagctgtc gacacattcc tcttcacctc ggagtctgtg aacgagggac 120  
 accctgacaa gctctgtgac caggtctcag atgccgttct tgacgcttgc cttgctgagg 180  
 accctgacag caaggttgct tgtgagacct gnaccaagac caacatggtc atggtccttg 240  
 gtgagatcac caccaaggcc attgtgacta cgagaagatt gtccagggag acttgccgca 300  
 acattggttt gtgtcaaacg atgttgggnt gacgccacac tgcaaag 347

<210> 246  
 <211> 261  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 246  
  
 cggacggtgg gcggangcgt gggcggacgc gtgggggttc gtgtcgaacg atgtcgggct 60  
 tgangctgac cactgcaagg tgcttgtaa cattgnnnca gcagtcccct natattgctc 120  
 agngtgtgca cggccacttc accaagcgcc ccgaggagat tggagctggt gaccaggggc 180  
 acatgtttgg gtatgcnact gacgagacct ctgagctgat gcccctcagc catgtccttg 240  
 ccaccaagct tggtgctcgt c 261

<210> 247  
 <211> 211  
 <212> DNA  
 <213> Zea mays  
  
 <400> 247  
  
 gcgaccaggt gtcggacgcc gtgcttgacg catgcctcgc gcaggacccc gacagcaagg 60  
 tggcctgcga gacctgcacc aagaccaaca tggatgatgtt gttcggcgag atcacgacca 120  
 aggcgaccgt ggactacgag aagatcgtgc gcgacacctg ccgcgagatc gggttcacct 180  
 ccgacgacgt gggctcgacg ccgaccgctg c 211

<210> 248  
 <211> 301  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 248

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gccatcggcg tgccggancc cctgtccgtg tncgtcgact ccnacggcac cgggaccatc 60
cccgacaagg aganncggnn ganngtcaag gagaacttcg acttcaggcc agggatgatc 120
accatcaacc tcgacctcaa gaaggcggcg aacagggttca tcaagaccgc cgcatacggc 180
cactttggcc gtgacgacgc cgacttcacc tgggaggngg tcaagcccct aaagaaggca 240
tccgcttaag aatgtattgg gaagttcact ggacatgagg ttcattcttcg tctggctctg 300
c 301
```

<210> 249  
 <211> 320  
 <212> DNA  
 <213> Zea mays

<400> 249

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caccggcgcg atccccgaca aggagatcct gaagatcgtg aaggagaact tcgacttcag 60
gcccggcatg atcatcatca acctcgacct caagaaaggc ggcaacgggc gctacctcaa 120
gacggcgggc tacgggcact ttgggaggga cgaccccgac ttcacctggg aggtggtgaa 180
gcccctcaag gcggagaagc cgtcttctgc atgaggcgcc tcctctgttt tggaagaagc 240
ttttggtctg gtctggtctg gtctggtgtg cctgcgctct atcatgcttt tttatggctc 300
ctacttgtga ttcttgatct 320
```

<210> 250  
 <211> 282  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 250

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acttcacgaa gcggccccgag gagatcggcg cgggcgacca ngncncacat gttcgggtac 60
gccaccgacg agacccccga gctgatgccg ctgagccacg tgctggccan caagctgggc 120
```

gcgcgctcac cgagncacgc aagaacggca ctgcgcgtgg ctnagggcnc gacggcaaga 180  
cccaggtgac ggtggagtac gtgaacgatg gcggcgccat ggtgcccgtc cgcgatgcaca 240  
cgtgctcatc tncacccagc acgacganna ctnaacaacg ac 282

<210> 251  
<211> 239  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 251

cttccacctc aacccgtctg gccgcttcgt catcggcgga cctcacggcg acgctggcct 60  
cactggccgg aagatcatan tccaggtctc ctacgccatc ggcgtgcccg aaacccctgt 120  
cgggtgttcgt ggacacgtac ggcacccggcg cgatccccga caaggagatc ctgaagatcg 180  
tgaaggagaa cttcgacttc aggcccgga tgatcatcat caacctcgac ctcaagaaa 239

<210> 252  
<211> 511  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 252

gnnnnnnnga aaantctacc cngtcaggtg ccggtcanga gaattcacgg gncgacccag 60  
cgtccaccac ggnggtggcg ctttctccgg caaggacccc accaaggtgg accgcagcgc 120  
gcctacgtgg ccaggcaggc cgccaagagc atcgtggcca gcggcctcgc ccgccgcgcc 180  
tcgtgcaggt gtcgtacgcc atcggcgtgc cggagcccct gtccgtgttc gtcaaccgta 240  
cggcaacggc acgattcccc acaagggaga ttctcaaaga tcgttaagga gaaactcgaa 300  
cttnaanggc cgggaanatt aagcaatcaa acctncgaac ctngaaaaaa gggcggcaac 360  
aaggttnaat caaaaancgc ccgcctaagg ncaattnggc ccgttaacca acgcganttc 420  
aactgggaag tggtnaaacc cctcaaattc caciaagcat cggcttaaag gttggaattt 480  
cactgtggac attaaggact aancttctc t 511

<210> 253  
<211> 234  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 253

cnacgngtcn gaatgagcac gtcancaagc ccgtcatccc ggagaggtac ctggacgaga 60  
agacnatctn ccnnnnnnnn ncgtcnnggc gcttcgtcat cggcggggccc cacgggggacg 120  
ccggcctcac cggccgcaag atcatcatcg acacctacgg cggctgggga gcccacggcg 180  
ggggcgccctt ctccggcaag gacccaccca angtggaccg cngcggggcc tact 234

<210> 254

<211> 295

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 254

ctcttctcct ccctcctgnc gggtccttaa taaagagcag cagcgcaagg tgagccgcca 60  
gcttgcccca ggttggtaga gcgagcgaga agaaggcaat ggcgggcgag agcttcctgt 120  
tcacgtcgga gtccgtgaac gaggggcacc cagacaagct gtgcgaccag gtgtcggacg 180  
cgggtgctgga cgctgcctg gcgcaggacc ccgacagcaa ggtggcctgc gagacctgca 240  
ccaagacgaa catggtgatg gtgttcggcg agatcaccac caaggcgagc gtgga 295

<210> 255

<211> 257

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 255

ccaanganga gancgngcn gacctgaagg agcatgtcan caagcctgtc anccctgagc 60  
agnacctnga cgagaagacc ancttcacc tnaaccanc nggccgtnt gtcattggtg 120  
gaccncacgg cgatgcnggc ctacnngcc gcaagancan catngacacc nacggtggcn 180  
ggggagccca tgggtggtggc gcntncnccg gcaaggaccc aaccaaggtt gaccgcagcg 240  
gacctatgtc gcaaggc 257

<210> 256

<211> 206

<212> DNA  
 <213> Zea mays  
 <400> 256  
 ggcgagatca cgaccaaggc gaccgtggac tacgagaaga tcgtgcgcga cacctgccgc 60  
 gagatcgggt tcacctccga cgacgtgggc ctcgacgccg accgctgcaa ggtgctggtg 120  
 aacatcgagc agcagtcccc cgacatcgcg cagggcggtgc acgggcactt cacgaagcgg 180  
 cccgaggaga tcggcgcggg cgacca 206

<210> 257  
 <211> 208  
 <212> DNA  
 <213> Zea mays  
 <400> 257  
 agacaatctt ccacctcaac ccgtctggcc gcttcgtcat cggcggacct cacggcgacg 60  
 ctggcctcac tggccggaag atcatcatcg acacctacgg tggtcgggga gcccacggcg 120  
 ggggcgcctt ctccggcaag gacccgacca aggtggaccg cagcggggcc tacgtcgcga 180  
 ggcaggctgc caagagcatc gtcgccgc 208

<210> 258  
 <211> 339  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 258  
 aacgaggggtg gcgccatggt tcccatccgt gtgcacacag tcctcatctc taccagcac 60  
 gacgagacag tcaccaacga cgagattgct gctgacctga aggagcacgt catcaagcca 120  
 gtcatccccg agcagtacct cgacgagaag acaatcttcc acctcaaccc gtctggccgt 180  
 tcgtcatcgg cggacctcac ggcgacgcgg cctcactggc ggaagatcat catcgacacc 240  
 tacggtgnntt gggagccacg gcggggcgct ttncggcaag gaccgncaag tggacgancg 300  
 gggctagtcn gagcagntgc aaganatgtc gcgcggctg 339

<210> 259  
 <211> 195  
 <212> DNA

<213> Zea mays

<400> 259

caggacccccg acagcaaggt ggcctgcgag acctgcacca agaccaacat ggtgatggtg 60  
ttcggcgaga tcacgaccaa ggcgaccgtg gactacgaga agatcgtgcg cgacacctgc 120  
cgcgagatcg ggttcacctc cgacgacgtg ggcctcgacg ccgaccgctg caagggtgctg 180  
gtgaacatcg agcag 195

<210> 260

<211> 267

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 260

cgtttgcctc ttctccctct tgccgggtccc gaataaagag cagcagcgca agaggtcggt 60  
agagcgagaa gaaggcaatg gcggccgaga gcttcctttt cacctcggag tccgtgaacg 120  
aggggcaccc cgacaagctg tgcgaccagg tgtcggacgc cgtgcttgac gcatgcctcg 180  
cgcaggaccc cgacagcaag gtggcctgcg agacctgcac caagaccaac atggtgatgg 240  
tgttcggcga natcacgacc aaggcga 267

<210> 261

<211> 272

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 261

atccgtttgc ctcttctccc tcttgccggt cccgaataaa gagcagcagc gcaagaggtc 60  
ggtagagcga gaagaaggca atggcggccg agagcttcct tttcacctcg gagtccgtga 120  
acgaggggca ccccgacaag ctgtgcgacc aggtgtcgga cgccgtgctt gacgcatgcc 180  
tcgcgcagga ccccgacagc aagggtggcct gcgagacctg caccaagacc aacatggtga 240  
tngtgttcgg cgagatcacg accaangcga cc 272

<210> 262

<211> 335

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 262

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gcggactaat gtcgcaaggc aggctgccaa gagcatcgtc gccagcggcc ttgctcgccg 60
cgccatcgtc caggtgtctt acgccatcgg gtgcccgagc ctctctccgt gttcgtcgac 120
acgtacggca ccggcgcgat ccccgacaag gagatcctca agattgtcaa ggagaactcg 180
atttcaggcc tggcatgata atcatcaacc ttgacctcaa gaaaggcggc aacgggcgct 240
actcaagagn gcggctacgg ccactttgga agggacgacc tgattcacct gggaggtggt 300
gaagccattc aatcggagaa actttgctaa gcggc 335
```

<210> 263

<211> 270

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 263

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cacacatccg ttgctctctt ctccctcttg ccggtcccga ataaagagca gcagcgcaag 60
aggtcggtag agcgagaaga aggcaatggc ggccgagagc ttccttttca cctcggagtc 120
cgtgaacgag gggcaccccg acaagctgtg cgaccagggtg tcggacgccg tgcttgacgc 180
atgcntcgcg caggaccccg acagcaaggt ggcctgcgag acctgcacca agaccaacat 240
ggtgatggtg ttcggcgaga tcacgaccaa 270
```

<210> 264

<211> 246

<212> DNA

<213> Zea mays

<400> 264

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gatctcgctg gactcggatc cgcccgaaca ccccgcgccg ccgcagatca aagaagatgg 60
cagctgtcga cacattcctc ttcacctcgg agtctgtgaa cgagggacac cctgacaagc 120
tctgtgacca ggtctcagat gccgttcttg acgcttgctt tgctgaggac cctgacagca 180
aggttgcttg tgagacctgc acaaagacaa acatggatcat ggtctttggt gagatcacca 240
ccaagg 246
```

<210> 265  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 265

ctcttctccc tcttgccgnt cccgaataaa gagcagcagc gcaagaggtc ggtagagcga 60  
 gaagaaggca atggcggccg agagcttcct ttacacntcg gaggccgtga aanangggca 120  
 cnccgacaag ctgtgcgacc aggtgtcgga cgccgtgctt gacgcatgcc tcgcgagga 180  
 ccccgacagc aagggtggcct gcgagacctg caccaagacc aacatgggtga tgggtgttcgg 240  
 cgagatcacg accaaggcga ccg 263

<210> 266  
 <211> 295  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 266

cgctcgcacc ggatctcgtc ggactcggat ccgcccgcacc accccgcgcc gccgcagatc 60  
 aaagaagatg gcagctgtcg acacattcnc tcttcacctn nggagtctgt gaacgagggga 120  
 caccctgaca agctctgtga ccaggtctca gatgccgttc ttgacgcttg ccttgctgag 180  
 gaccctgaca gcaagggttg ttgtgagacc tgcaccaaga ccaacatggt catggtcttt 240  
 ggtgagatca ccaccaaggc caatgttgac tacgagaaga ttgtcagggg gacct 295

<210> 267  
 <211> 288  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 267

gccgcaacat tggtttcgtg tcgaacgatg tcgggcttga cgctgaccac tgcaagggtgc 60  
 ttgtgaacat tgagcagcag tcccctgata ttgctcaggg tgtgcacggc cacttcacca 120  
 agcgccccga ggagattgga gtggtgacca ggggcacatg tttgggtatg cgactgacga 180  
 gaccctgag ctgatgcccc tcagccatgt cttgccacca acttggtgct cgtctcacgg 240



agttcgccaa gaatggaact gccctggcna agcccgatgg aagaccag 288

<210> 268  
 <211> 254  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 268

gtcatcggcg gnnctcacgg ccgacgctgg cctcactggc cggaagatca tcatcganac 60  
 ctncncggtgg ctggggagcc cacggcgggg gcgccttctc cggcaaggnc ccgaccaagg 120  
 tggaccgcag cggggcctac gtcgcgaggc aggctgccaa naggatcgtc gccgcccggcc 180  
 taaccgcgcg cgncttctgc cagggtctnct acgccatcgg ntnaccgcag cccctttcgg 240  
 tgttcgtgga cacg 254

<210> 269  
 <211> 525  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 269

ggngnaggg ttttgtanng ntnnnnggga tnganngttt accggttcgg aattcccggg 60  
 tcgacccacg cgtccgcca cgcgtccgcc cacgcgtccg cccacgcgtc cgcccacgcg 120  
 tccggtcggg tctgggacga gacgagacga tcccngcctc ccctcaaccg gaacttgttt 180  
 taccatct catccactg actccacca cccaccgcc cgctgcctcc gccggatctc 240  
 gtcggactcg gatccgccg accacgacca cccgcgttg ncgccgcgca gcagcagcag 300  
 atcagagaag atggccggac tcgacacctt cctcttcacc tcggagtccg tgaacgaggg 360  
 acaccctgac aagctctgcg accaggtctc agatgctgtt ctggacgctt gccttgctga 420  
 ggaccctgac agcanggttg cttgcgagac ctgcaccaag accaacaatgg tcatggcttt 480  
 ggtgagatca ccaccaagn caatgntgac tttttnaana ntttg 525

<210> 270  
 <211> 312  
 <212> DNA  
 <213> Zea mays

<400> 270

ctgaagatcg tgaaggagaa cttcgacttc aggcccggca tgatcatcat caacctcgac 60  
ctcaagaaag gcggaacgg gcgctacctc aagacggcgg cctacgggca ctttgggagg 120  
gacgaccccg acttcacctg ggaggtggtg aagcccctca aggcgagaa gccgtcttct 180  
gcatgaggcg cctcctctgt ttggaagaa gcttttggtc tggctctggtc tggctctggtg 240  
tgcctgcgct ctatcatgct ttttatggc tcctacttgt gattcttgat ctgccccttg 300  
cttatcattg ta 312

<210> 271

<211> 227

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 271

gngagnccac ggcnggggcy ctttctccgg caaggacccg accaagggtg accgcagcgn 60  
ggccnacntc gcgaggcagn ctgccaanag catcgctgcc gccggcctcn cncgccgcgc 120  
cattgtccag gtctcctacg ccacggcgt gcccgagccc ctttcggtgt tcgtggacac 180  
gtacggcacc ggcgcgatcc ccgacaagga gatcctgaag ancggtg 227

<210> 272

<211> 234

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 272

gcagcgcaag angttggtag agcgagcgag nngaaggcaa tggcggcgga gagcttcctg 60  
ttcacctcgg ngtcctgaa cgaggggcac ccagacaagc tgtgcgacca ggtgtcggn 120  
gcggtgctgg acgcctgcct ggcgcaggac cccgacagca aggtggcctg cgagacctgc 180  
accaagacga acntngtgat ggtgttcggc gagatcncca ccaaggcgag cgtg 234

<210> 273

<211> 239

<212> DNA

<213> Zea mays

<400> 273

cgatgagacc cctgagttga tgcccctcag ccatgtcctt gcagtggtcg gcgtcaagcc 60

caacatcggtt tgacacaaaa ccaatggtgc ggcaggtctc cctgacaatc ttctcgtagt 120

caacattggc cttggtggtg atctcaccaa agaccatgac catggttggtc ttggtgcagg 180

tctcacaagc aaccttgctg tcagggtcct cagcaaggca agcgtcaaga acggcatct 239

<210> 274

<211> 245

<212> DNA

<213> Zea mays

<400> 274

ccctcttgcc ggtcccgaat aaagagcagc agcgcaagag gtcggtagag cgagaagaag 60

gcaatggcgg ccgagagctt ccttttcacc tcggagtcgg tgaacgaggg gcaccccgac 120

aagctgtgcg accagggtgc ggacgccgtg cttgacgcat gcctcgcgca ggaccccgac 180

agcaagggtg cctgcgagac ctgcaccaag accaacaatg tgatggtggt cggcgagatc 240

acgac 245

<210> 275

<211> 268

<212> DNA

<213> Zea mays

<400> 275

cgtttgccctc ttctccctct tgccggtccc gaataaagag cagcagcgca agaggtcggt 60

agagcgagaa gaaggcaatg gcggccgaga gtttcctttt cacctcggag tccgtgaacg 120

aggggcaccc cgacaagctg tgcgaccagg tgtcggacgc cgtgcttgac gcatgcctcg 180

cgcaggaccc cgacagcaag gtggcctgcg agacctgcac caagaccaac catggtgatg 240

gtgttcggcg agatcacgac caaggcga 268

<210> 276

<211> 228

<212> DNA

<213> Zea mays

<400> 276

ctcacggcga tgctggcctc actggccgca agatcatcat tgacacctac ggtggctggg 60  
gagcccatgg tgggtggcgct ttctccggca aggaccaac caagggtgac cgcagcggag 120  
cctatgtcgc aaggcaggct gccaaagca tcgtcgccag cggccttgct cgccgcgcca 180  
tcgtccaggt gtcttacgcc atcgggtgcc cgagcctctc tccgtgtt 228

<210> 277  
<211> 253  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 277

gatcgctgct gacctgaagg agcatgtcat caagcctgtc atccctgagc agtaccttga 60  
cgagaagacc atcttccacc ttaaccocatc tggccgcttt gtcattggtg gacctcacgg 120  
cgatgctggc ctactggcc gcaagatcat cattgacacc nacggtggct ggggatcccn 180  
nnggggtggc cttttctcgg aagagggcna aacnaagggtg gncgtagtgg tntttntga 240  
aanggtagnn tgc 253

<210> 278  
<211> 268  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 278

ccgttcgcct cttctcctcc ctctgccgg gtccttaata aagagcagca gcgcaagagg 60  
ttggtagagc gagcgagaag aaggcaatgg cggcggagag cntcctgttc acctcggagt 120  
ccgtgaacga ggggcaccca gacaagctgt gcgaccaggt gtcggacgcg gtgctggacg 180  
cctgcctggc gcaggacccc gacagcaagg tggcctgcga gacctgcacc aagacgaaca 240  
tgggtgatggt gttcggcgag atcaccac 268

<210> 279  
<211> 218  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<400> 279

cccgaccaag gtggaccgca gcggggccta cgtcgcgagg caggctgcca agagcatcgt 60

cgccgccggc ctgcgccgcc gcgccatcgt ccaggtctcc tacgccatcg ggtgcccag 120

cccctatcgg tgttcgtgga cacgtacggc ancggcgcga tccccgacaa ggagatcctg 180

aagatcgtga aggagaactt cgacttcaag cccggcat 218

<210> 280

<211> 314

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 280

gccggtcccc aataaagagc agcagcgcaa gaggtcggta gagcgagaag aaggcaatgg 60

cggccgagag cttccttttc accttcggag tccgtgaacg aggggcaccc cgacaagctg 120

tgcgaccagg tgtcggacgc cgtgcttgac gcatgcctcg cgcaggaccc cgacagcaag 180

gtggctgcga gactgcacaa gaccaacatg gtgatgggtg tcggcgagat cacgaacaan 240

gcgacgtgga ctacgagaag atcgtgcgcg acacctgccc gcgagatcgg gttcacctcc 300

gacgacgtgg gctc 314

<210> 281

<211> 216

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 281

ctccggcaag gacccgacca aggtggaccg cagcggggcc tacgtcgcga ggcaggctgc 60

caagagcatc gtcgccgccg gctcgcgccg ccgcgccatt gtccaggtct cctacgccat 120

cgggtgcccc ancccccttc ggtgttcgtg gacacgtacg gcaccggcgc gatccccgac 180

aaggagatcc tgaagatcgt gaaggagaac ttcgac 216

<210> 282

<211> 289

<212> DNA

<213> Zea mays

<223>        unsure at all n locations  
 <400>        282

ggccgctttg tcattggtgg acctcacggc gatgctggcc tcaactggcng caagatcatc    60  
 attgacacct acggtggctg gggagcccat ggtggtggcg ctttctccgg caaggaccca    120  
 accaaggttg accgcagcgg acctatgtcg caaggcaggc tgccaagagc atcgtcgcca    180  
 gcggccttgc tcgccgcgcc atcgtccagn tgtcttacgc canngggtgc nngancctct    240  
 ctccgtgttc gaaaanannn anngcnnggn nntcccccaa nggttttnt                289

<210>        283  
 <211>        247  
 <212>        DNA  
 <213>        Zea mays

<223>        unsure at all n locations  
 <400>        283

ctccctcttg ccggtcccga ataaagagca gcancgcaag aggtcggtag agcgagaaga    60  
 aggcaatggc ggccgagagc ttctttttca cctcggagtc cgtgaacgag gggcaccccg    120  
 acaagctgtg cgaccagggtg tcggacgcgg tgcttnangc atgcctcgcg caggaccccg    180  
 acagcaaggt ggctgcgag acctgcacca agaccaacat ggtgatggtg ttcggcgaga    240  
 tcacgac                                                                                247

<210>        284  
 <211>        275  
 <212>        DNA  
 <213>        Zea mays

<223>        unsure at all n locations  
 <400>        284

cgtttgcttc ttctccctct tgccggtccc gaataaagag cagcagcgca agaggtcggt    60  
 agagcgagaa gaaggcaatg gcggccgaga gtttctttt cacctcggag tccgtgaacg    120  
 aggggcaccc cgacaagctg tgcgaccagg tgtcggacgc cgtgcttgac gcatgcctcg    180  
 cgcaggaccc cgacagcaaa gttgctgcga aanctgcacc aagancaaca tggatgatggt    240  
 gttcggcgag atcacgacca aggggaccgt ggatt                                        275

<210>        285  
 <211>        255

<212> DNA

<213> Zea mays

<400> 285

cctcttctcc tccctcctgc cgggtcctta ataaagagca gcagcgcaag aggttggttag 60  
agcgagcgag aagaaggcaa tggcggcgga gagcttcctg ttcacctcg agtccgtgaa 120  
cgaggggcac ccagacaagc tgtgcgacca ggtgtcggac gcggtgctgg acgcctgcct 180  
ggcgcaggac cccgacagca aggtggcctg cgagacctgc accaagacga acatggtgat 240  
ggtgttcggc gagat 255

<210> 286

<211> 221

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 286

gggagcccac ggcgggggcn ccttcnccgg caaggacccg accaagggtgg accgcagcgg 60  
ggcctacgtc ncnaggcagg cngccaagag catcgtncc nccggcctcg ccnccgcnc 120  
cattgtccag gtctcctacg ccatcgntg cccnagcccc tttcggtgtt cgtggacacn 180  
tacggcaccg gcgcgatccc cnacaaggag atcctgaaga t 221

<210> 287

<211> 216

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 287

ctctaccag cagcagcaga cagtcaccaa cgacgagatt gctgctgacc tgaaggagca 60  
cgatcatcaag ccagtcattc ccgagcagta cctcgacgag aagacaatct tcacacctcaa 120  
cccgtctggc cgcttcgtca tcnccggacc tcacggcgac gctggcnctnn ctgnnncggn 180  
agatcatcat cgacacctan ggttgctggg gagcca 216

<210> 288

<211> 292

<212> DNA

<213> Zea mays

<223>        unsure at all n locations  
 <400>        288

cgtacgtgtc gacacgtacg gcaccggcgc gatccccgac aagganatcc ttcaagattg    60  
 tcaaggagaa cttcgatttc aagcctggca tgatcatcat caaccttgac ctcaagaaag    120  
 gcggcaacgg gcgctacctc aagacggcgg cctacggcca ctttggaagg gacgaccctg    180  
 acttcacctg ggaggtggtg aagccacttc aagtcggaga aaccttctgc ctaaggcggc    240  
 ctttttttca gtaagaagct tttggtggtc tgctgtgctt aatcagcttt ta            292

<210>        289  
 <211>        276  
 <212>        DNA  
 <213>        Zea mays

<400>        289  
 gagaacttcg acttcaggcc cggcatgata atcatcaacc tcgacctcaa gaaaggcggc    60  
 aacgggcgct acctcaagac ggcggcctac gggcactttg ggagggacga ccccgacttc    120  
 acctgggagg tgggtgaagcc cctcaaggcg gagaagccgt cttctgcatg aggcgcctcc    180  
 tctgtttcgg aagaagcttt tggctctggtc tgctgcgct ctatcatgct tttttatggc    240  
 tcctacgtgt tgtgattctt gatctgcccc ttgctt                            276

<210>        290  
 <211>        219  
 <212>        DNA  
 <213>        Zea mays

<223>        unsure at all n locations  
 <400>        290

cgccatcggc gtgccggagc ccctgtccgt gttcgtcaac tcgtacggca ccggcacgat    60  
 ccccgacaag gagatcctca agatcgtgaa ggagaacttc gacttcangc ccgggatgat    120  
 cagcatcaac ctgcacctga agaagggcgg caacaggttc atcaagaccg ccgcctacgg    180  
 ccatttcggc gtgacgacgc cgacttcact gggagtggg                        219

<210>        291  
 <211>        191  
 <212>        DNA  
 <213>        Zea mays



<400> 291

catgccgcaa cattggtttc gtgtcgaacg atgtcgggct tgacgctgac cactgcaagg 60  
tgcttgtgaa cattgagcag cagtcccctg atattgctca ggggtgtgcac ggccacttca 120  
ccaagcgccc cgaggagatt ggagctggtg accaggggca catgtttggg tatgcgactg 180  
acgagacccc t 191

<210> 292

<211> 315

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 292

gacgagacga gttaccatct catcccaact ccggaacgaa caagttacca tctcatcca 60  
actccgcctc gaccggnncn cgtcggactc gganccgccc gaccaccccg cgccgcccga 120  
gatcaaagaa gatggcagcn gtcgacacat tcctcttcac ctgggagtct gtgaacgagg 180  
gacaccctga caagcncgtg gaccaggtct cagatgccgt tcttgacgt tgccttgng 240  
aggaccctga cagcaagggt gcttgtgaga cctgcaccaa gaccaacatg gtcattggtct 300  
ttggtgagan nacca 315

<210> 293

<211> 501

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 293

agagcatcgn ggccagcggc ctgcccgc gctgcctngt gcaagggtgc ctancccant 60  
nggngtgccg gaaccctgt caatgntcgg cgantttctac ggcaccggga ccatnccga 120  
caaggagatc ctcaagatcg tcaaggagaa cttcgacttc agggcccgagg atnatcacca 180  
tcaacctcga cctcaanaaa gggcgggaac aggttcatca agaccgccgc atacngncac 240  
tttgccccgt gacganenca ctttacctgg gaagtgtgta atcccctaaa gaaagccatn 300  
ccncttaaga atgtanttgg naagtttact tggacatgaa gttcattctt ngctctngctt 360  
ctgctgatnc cctnnaanga ttgcttgntn cttgcttgcc cctngattgt ntgttttgan 420

caantgantt ngcttgntct tgttccatnt gaaaaaccnn attaatngtg gncnttttg 480  
 tgaaaaaaag nttingccna t 501

<210> 294  
 <211> 281  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 294

gcctcttctc ctccctcctg ccgggtcctt aataaagagc agcagcgcaa gaggttggtg 60  
 gagcgagcga gaagaaggca atggcggcgg agagcttcct gttcacctcg gagtccgtga 120  
 acgaggggca cccagacaag ctgtgcgacc aggtgtcgga cgcggtgctg gacgcctgcc 180  
 tggcgagaa ccccgacagc aagtggcctg cgagacctgc accaagacga acatgggtgat 240  
 ggtgttcggc gaantcacca ccagggnagn tggatacgaa t 281

<210> 295  
 <211> 486  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 295

gggnantnt tnnagncctt cnacgcgnnc agtaccggtc acagaattcc cgggncgacc 60  
 acgcgtccnc ggacgcgtgg gcgacaagga gatcctcang atcgtgaagg agannttcac 120  
 ttcaggcccg ggatgatcag catcaacctc gacctgaaga agggcggcaa caggttctca 180  
 agaccgccgc ctacggccac ttcggccgtg acnacgccga cttcacctgg gaggtgtgaa 240  
 gcccctcaag ttgcacaagg catcggctta aggttgggan tgtcactgtg gacataggac 300  
 taccttctc tggtctgtgt gttacctgca agcattgctg ctgctggatg tgtggtttga 360  
 tcagtgactg gctgctgctc catagaagat gaacggagag aaggatgatg aangctttgg 420  
 caatcgcccg ctgcaactgc aaccatgcc atgccggctt aatgattggg taaattttgg 480  
 cttnca 486

<210> 296  
 <211> 173

<212> DNA  
 <213> Zea mays  
  
 <400> 296  
 tacgtcgcca ggcaggccgc caagagcatc gtggccagcg gcctcgcccg ccgtgcctc 60  
 gtgcagggtgt cctacgccat cggcgtgccg gagcccctgt ccgtgttcgt cgactcctac 120  
 ggcaccggga ccatccccga caaggagatc ctaaagatcg tcaaggagaa ctt 173

<210> 297  
 <211> 278  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 297  
 cgcctcttct cctccctcct gccgggtcct taataaagag cagcagcgca agaggttggt 60  
 agagcgagcg agaagaaggc aatggcgggc gagagcttcc tgttcacctc ggagtccgtg 120  
 aacgaggggc acccagacaa gctgtgacgac caggtgtcgg acgcggtgct ggacgcctgc 180  
 ntggcgagcgg accccgacag caaggtggcc tgcnatncct ncacnangac gaacatgggtg 240  
 atggtgttcg gcgaaatcac cncnantgcg acntngac 278

<210> 298  
 <211> 309  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 298  
 ggcgtgccgg agcccctgtc cgtgttcgtc gactcctacg gcaccgggac catccccgac 60  
 aaggagatcc taaagatcgt caaggagaac ttcgacttca ggccagggat gatcaccatc 120  
 aacctcgacc tcaagaaggc cggcaacagg ttcacatga cgcgcgcata cggccacttt 180  
 ggcntgacga cgccgacttc acctgggagg tggtaagcc cctaaagaag gcatccgctt 240  
 aagaatgtat tgggaagtgc actggacatg aggttcatct tcgtctggct ctgctgatac 300  
 ctgcaagat 309

<210> 299  
 <211> 197

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 299  
  
 gggagaccng ccgcaacatt ggttttgtgt caaacgatgt tgggcttgac gccgaccacn 60  
 gcaaggtgct cgtgaacatt gagcagcagt cccctgatat tgctcagggg gtgcatggcc 120  
 acttcaccaa gcgccccgag gagattggag ctggtgacca gggacacatg ttcgggtatg 180  
 cgaccgatga gaccctt 197

<210> 300  
 <211> 253  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 300  
  
 cgtttgcctc ttctccctct tgccgggtccc gaataaagag cagcagcgca agaggctcgg 60  
 agagcgagaa gaaggcaatg gcggccgaga gcttcctttt cacctcggag tccgtgaacg 120  
 aggggcaccc cgacaagctg tgcgaccagg tgtcggacgc cgtgcttgac gcatgcctcg 180  
 cgcaggaccc cgacagcaag gtggctgcga gacctgcacc nagaccaaca tggatgatngt 240  
 gttcggcgag atc 253

<210> 301  
 <211> 302  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 301  
  
 cgtgaaacga ggggacaccc tgacaagctc tgcgaccagg tctcagatgc tgttctggac 60  
 gcttgcccttg ctgaggaccc tgacagcaag ttgcttggag acctgcacca agaccaacat 120  
 ggtcatggtc tttggtgaga tcaccaccaa ggccaatgtc gactacgaga agattgtcag 180  
 gggagacatg ccgcaaaatt ggtttcngnt naganngatg tggggcttga ngntgaccac 240  
 ngcanggtgn tnatanaaan ttngnagnan tncctgtat ttgcgcnggg gggnnncccc 300  
 nc 302

<210> 302  
 <211> 460  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 302

cgccgcccgc ctcgcccgcc gcgccatcgt ccaggtctcc tacgccatcg gcgtgcccga 60  
 gccctatcgt gtgttcgtgg acacgtacng gancngngcn anncccgaen agggnaatcn 120  
 tganaatngn anaagganaa nttnanantn caggcccggt tgatcattat naacctagac 180  
 ctcaanaaag gcggaaacgg gcnctaccta aagacggggg tctacgggcn ctttgngagg 240  
 gacgaccgag anttcacctg agaggtggna aagcccctca aggcggaaaa gccgtcttct 300  
 gcatgaggcg cctcctctgt ttengaagaa gcttttggtc tggctctgct gcgctctatc 360  
 atgctttttt atggctncta cgtgttgtga ttcttgatct gcccttctgt tatcatttgt 420  
 actgtactgt cactgtccta ataagtggta cgtgtgcggg 460

<210> 303  
 <211> 297  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 303

gtctatgtng caangnacgc tgcnaagagc atngtcnccc agcggccttg ctcgcnegcg 60  
 natngnccca ggtgtattat cgccatccgg cnngncngng cntctcnccg tgttcgtcga 120  
 cacgtacggc accggcgcgga tccccgacaa ggngnnncnt gaagattgta caaggagaac 180  
 ttcgatttca ggcttgcat gatcatnnnc aaccttganc tcaagaaagg nggcaacggg 240  
 cgctacctca agacggcggc ctacggcnac tttggaaggg acgaccctga cttcacc 297

<210> 304  
 <211> 259  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 304

cggatctgag acgagacgag ttaccatctc atcccaactc cggaacgaac aagttaccat 60

ctcatcncaa ctccgtctca ccgaggtccg caagaacgga acctgcccct ggctcaggcc 120  
 tgatgggaag acccaggtga cagtcgagta ccgcaatgag ggtggtgcca tggcccccat 180  
 ccgtgtccac accgtcctca tctccacca gcacgacgag acagtgacca atgatgagat 240  
 cgctgctgac ctgaaggag 259

<210> 305  
 <211> 244  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 305

cttctcctcc ctctgccgg gtccttaata aagagcagca gcgcaagagg ttggtagagc 60  
 gagcgagaag aaggcaatgg cggcggagag cttcctgttc acctcggagt ccgtgaacga 120  
 ggggcacca gacaagctgt gcgaccaggt gtcggacgcg gtgctggacg cctgcctggc 180  
 gcaggacccc gacagcaagg tggcctgcga nacctgcacc aagacgaaca tggatgatgg 240  
 gttc 244

<210> 306  
 <211> 236  
 <212> DNA  
 <213> Zea mays

<400> 306

cgtcggactc ggatccgccc gaccacgacc accccgcgcc gccgccgccc acagcagcag 60  
 atcagagaag atggccggac tcgacacctt cctcttcacc tcggagtccg tgaacgaggg 120  
 acaccctgac aagctctgcg accaggtctc agatgctgtt ctggacgctt gccttgctga 180  
 ggaccctgac agcaaggttg cttgcgagac ctgcaccaag accaacaatgg tcatgg 236

<210> 307  
 <211> 310  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 307

cccagcacga cgagacagtc accaacgacg agatttctgg gtagagatga ggactgtgtg 60

cacacggatg ggaaccatgg cgccaccctc atctctaccc agcacnacga gacagtcacc 120  
aacgacgaga ttgctgctga cctgaaggag cacgtcatca agccagtcac ccccgagcag 180  
tacctcgacg agaagacaat cttacacctc aaccggtctg gccgcttcgt catcggcgga 240  
cctcacggcg aggtgggcnt nactggccgg angatntcat cganannagg tgtttgggga 300  
nccacggggg 310

<210> 308  
<211> 185  
<212> DNA  
<213> Zea mays

<400> 308

cctgacagca aggttgcttg cgagacctgc accaagacca acatgggtcat ggtctttggt 60  
gagatcacca ccaaggccaa tgtcgactac gagaagattg tcaggagagac atgccgcaac 120  
attggtttcg tgtcgaacga tgtcgggctt gacgctgacc actgcaagtg cttgtgaaca 180  
ttgag 185

<210> 309  
<211> 272  
<212> DNA  
<213> Zea mays

<400> 309

ccgtttgcct cttctccctc ttgccggtcc cgaataaaga gcagcagcgc aagagggtcgg 60  
tagagcgaga agaaggcaat ggccggccgag agcttccttt tcacctcggg agtccgtgaa 120  
cgagggggcac cccgacaagc tgtgcgacca ggtgtcggac gccgtgcttg acgcatgcct 180  
cgcgcaggac cccgacagca aggtggcctg cgagacctgc accaagacca acatgggtgat 240  
ggtgttcggc gagatcacga ccaaggcgac cg 272

<210> 310  
<211> 231  
<212> DNA  
<213> Zea mays

<400> 310

ctctttctccc tcttgccggt cccgaataaa gagcagcagc gcaagaggtc ggtagagcga 60

gaagaaggca atggcgcccg agagcttcct tttcacctcg gagtccgtga acgaggggca 120  
 ccccgacaag ctgtgcgacc aggtgtcgga cgccgtgctt gacgcatgcc tcgcgagga 180  
 ccccgacagc aaggtggcct gcgagacctg caccaagacc aacatggtga t 231

<210> 311  
 <211> 307  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 311

gtcggatctg agacgagacg agtccccctcg cntcaccocaa ccggaacgaa caagttacca 60  
 tctcatccca accccgcctg cgaccggntg tcgtcggaact cggntccgcn cgaccacccc 120  
 gcgccgccgc agatcaaaga agatggcagc tctcgacacc ttctctttca cctcggagtc 180  
 tgtgaacgag ggacaccctg acaagctctg cgaccaggtc tcagatgccg ttcttgacgc 240  
 ttgcnttgct gaggaccctg acagcaaggt tgcttgtag acctgcacca agaccaacat 300  
 ggtcatg 307

<210> 312  
 <211> 260  
 <212> DNA  
 <213> Zea mays

<400> 312

catccatccc cgttcgctc ttctcctccc tctgcccgg tccttaataa agagcagcag 60  
 cgcaagaggt tggtagagcg agcgagaaga aggcaatggc ggccgagagc ttctgttca 120  
 cctcggagtc cgtgaacgag gggcaccacg acaagctgtg cgaccagggt tcggacgcgg 180  
 tgctggacgc ctgcctggcg caggaccccg acagcaaggt ggcctgcgag acctgcacca 240  
 agacgaacat ggtgatggtg 260

<210> 313  
 <211> 305  
 <212> DNA  
 <213> Zea mays

<400> 313



tgagacgaga cgagttacca tctcatccca actccggaac gaacaagtta ccattctcatc 60  
 ccaactccgc ctcgaccgga tctcgtcggga ctcggatccg cccgaccacc ccgcgccgcc 120  
 gcagatcaaa gaagatggca gctgtcgaca cattcctctt cacctcggag tctgtgaacg 180  
 agggacaccc tgacaagctc tgtgaccagg tctcagatgc cgttcttgac gcttgccttg 240  
 ctgaggaccc tgacagcaag gttgcttggt agacctgcac caagacaaca tggatcatggt 300  
 ctttg 305

<210> 314  
 <211> 237  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 314

gaagattntc atggatacct gccgcancat tngntttgtg atcanacgat gctgggnttg 60  
 acgcnacca ctgnaagggt cncgtgaana ttgatcanca gtencctgat attgctcang 120  
 gtnntcatgg ccacttcacc aagcgccccg aggagattgg agctggngac cagggacaca 180  
 tgttcgggta tgctaccnan tagaccntg agttgatgcc cctcagccat gtccttg 237

<210> 315  
 <211> 280  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 315

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 tcggatccgc ccgaccacga ccaccccgcg ccgccgccgc gcagagcagc agatcagaga 120  
 agatggccgg actcgacacc ttctcttca cctcggagtc cgtgaacgag ggacaccctg 180  
 acaagctctg cgaccaggtc tcagatgctg ttctggacgc ttgccttgct gaggaccctg 240  
 acagcaagggt tgcttgcgag acctgcacca agaccaacat 280

<210> 316  
 <211> 269  
 <212> DNA  
 <213> Zea mays

<223>        unsure at all n locations  
 <400>        316

cgtgaaggag aacttcgact tcaggcccgg gatgatcagc atcaacctcg acctgaagaa    60  
 gggcggcaac aggttcatca agaccgccgc ctacggccac ttcggccgtg acgacgccga    120  
 cttcacctgg gaggtggtga agcccctcaa gttcgacaag gcatcggcctt aaggttggga    180  
 gtgtcactgt ggacatgagg actaccttcc tctggctctg ctgttacctg caagcattgc    240  
 tgctgctgga tgngtgtgtt tgatcatga                                            269

<210>        317  
 <211>        229  
 <212>        DNA  
 <213>        Zea mays

<400>        317  
 ccgacaagga gatacctaaag atcgtcaagg agaacttoga cttcaggcca gggatgatca    60  
 ccatcaacct cgacctcaag aagggcggca acaggttcat caagaccgcc gcatacggcc    120  
 actttggccg tgacgacgcc gacttcacct gggaggtggt caagccccta aagaaggcat    180  
 ccgcttaaga atgtattggg aagttcatgg acatgagggt catcttcgt                    229

<210>        318  
 <211>        418  
 <212>        DNA  
 <213>        Zea mays

<223>        unsure at all n locations  
 <400>        318

tatcatcgtn nccagctgnc tctnccnncn ggngcctttn gcaagtntcc tangccatcg    60  
 ncgtgccnga ncccctgtcc ntgttcgtcg actcctacng naccnggacc atncccgaca    120  
 aggagatcct aaagatcttc aaggagaact tcnacttcan gccanggatg atcaccatca    180  
 acctcgacct caagaaggnc ggcaacaggt tcatcaagac cgncnnatac ggcactttng    240  
 ccgtgacgac tcttacttca cctgagaagt ggtcaaacc ctaaagaaag cattcnctta    300  
 aaaatgtatt nggaanttna actggacatt atgttcatnt ttcntcttgg ttcttctnat    360  
 acctgcaaag attgctgnnt cttctntccn nccttgatg tgtgtttgan caatgant        418

<210>        319

<211> 267  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 319

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 atccccgaca aggagatcct aaagatcgtc aaggagaact tcgacttcag gccagggatg 120  
 atcaccatca acctcgacct cnagaagggn ggcaacnggn tcntnaagan cggnggaana 180  
 ggctatttgg ncgtgaangg ntcggattca ncctggtggg gtggtaannc cctnaaangn 240  
 gnnnnccctgt tnnaagnttt tgggggag 267

<210> 320  
 <211> 179  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 320

cccctggctc aggcccgatg ggaagacca ggtgacantg gagtaccgca acgaggggtg 60  
 cgccatggtt cccatccgtg tgcacacagt cctcatctct acncagcacg acgagacagt 120  
 caccaacgac gagattgctg ctgacctgaa ggagcacgtc atcaagccag tcatccccg 179

<210> 321  
 <211> 280  
 <212> DNA  
 <213> Zea mays

<400> 321

cttcacgata ttgaggatct ccttgctcggg gatcgtgccg gagaacttcg acttcaggcc 60  
 cgggatgata agcatcaacc tcgacctgaa gaagggcggc aacaggttca tcaagaccgc 120  
 cgcctacggc cacttcggcc gtgacgacgc cgacttcacc tgggaggtgg tgaagcccct 180  
 caagttcgac aaggcatcgg ctttaaggttg ggagtgtcac tgtggacatg aggactacct 240  
 tcctctggct ctgctgttac ctgcaagcat tgctgctgct 280

<210> 322  
 <211> 294  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 322

ctcttctccc tcttgccggt cccgaataan gagcagcagc gcnagaggtc ggtagagcga 60

gangnaggca atggcggccg agngttcctt ttcaaccttc ggagtccgtg aacngggggc 120

nccccgaaca agctgtgcga ccagggtgtcg gacgccgtgc ttgatgcatg cctcgcgcng 180

ganccccgac agcnagggtgg cctgcgagat ctgcaccaag accaacaatgg tgatgggtgtt 240

cggcgagatc acgatcaagg cgancgtgga ctacnggaag atcgtgcgcg acac 294

<210> 323

<211> 280

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 323

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ggccagttag gccatcattg acacctacgg tggctgggga gcccatngtg gtggcgcttt 120

ctccggcaag gacctaacca aggttgaccg cagcggagcc tatgtcgcaa ggctggctgc 180

caagagcatc gttcgccagc ggccttgctn cgccgcgcca tcgtccaggt gtcttacgcc 240

atcggntggc ccgagcctct ctccgtgttc gtcgacacta 280

<210> 324

<211> 273

<212> DNA

<213> Zea mays

<400> 324

ccgttcgcct ctttctctc cctcctgccg ggtccttaat aaagagcagc agcgcaaggt 60

gagccgccag cttgccccag gttggttagag cgagcgagaa gaaggcaatg gcggcggaga 120

gcttctctgtt cacctcggag tccgtgaacg aggggcaccc agacaagctg tgcgaccagg 180

tgtcggacgc ggtgctggac gcctgcctgg cgcaggaccc cgacagcaag tggctgcgag 240

acctgcacca agacgaacat ggtgatgggtg ttc 273

<210> 325

<211> 215  
 <212> DNA  
 <213> Zea mays  
  
 <400> 325  
  
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 aggcaatggc ggccgagagc ttccttttca cctcggagtc cgtgaacgag gggcacccccg 120  
 acaagctgtg cgaccaggtg tcggacgccg tgcttgacgc atgcctcgcg caggacccccg 180  
 acagcaaggt ggccctgcgag acctgcacca agacc 215

<210> 326  
 <211> 291  
 <212> DNA  
 <213> Zea mays  
  
 <400> 326  
  
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 gcaacagggt catcaagacc gccgcctacg gccacttcgg ccgtgacgac gccgacttca 120  
 cctgggaggt ggtgaagccc ctcaagttcg acaaggcatc ggcttaaggt tgggagtgtc 180  
 actgtggaca tgaggactac cttcctctgg ctctgctgtt acctgcaagc attgctgctg 240  
 ctggatgtgt gtgtttgatc agtgactggc tgctgctcca tagaagatga a 291

<210> 327  
 <211> 173  
 <212> DNA  
 <213> Zea mays  
  
 <400> 327  
  
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 aacattggtt tcgtgtcgaa cgatgtcggg cttgacgctg accactgcaa gtgcttgtga 120  
 acattgagca gcagtccect gatattgctc aggggtgtgca cggccacttc acc 173

<210> 328  
 <211> 156  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 328

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tcgcgagga ccccgacagc aaggtggcct gcgagacctg caccaagacc aacatgggtga 120  
tgggtgttcgg cnagatcacg accanggcga ccgtnt 156

<210> 329  
<211> 178  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 329

cccacggcgg gggcgccctt tccggcaagg acccgaccaa ggtggaccgc agcggggcct 60  
acgtcgcgag gnaggctgcc aagagcatcg tcgccgcgg cctcgccgcg ngcgccattg 120  
tccaggtctc ctacgccatc ggcgtgcccg ancccccttc ggtgttcgtg gacacgta 178

<210> 330  
<211> 176  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 330

tagttctaga tcggcaagng cnnccnttgn canatgttcg ggtacgccac cgacgagacc 60  
cccgagctga tgccgtgag ccacgtgctg gccaccaagc tgggcgcgcg cctcaccgag 120  
gtgcgcaaga acggcacctg cgcttggtg agggccgacg gcaagacca ggtgac 176

<210> 331  
<211> 263  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 331

cttctcncctc ttgccggttn cgnntaaaga ncagcagcgc aagaggtcgg tagagcgatg 60  
aagaaggcaa tggcgccgn nagcttcctt ttcacctng antccgtgaa cgangggcan 120  
ccnganaagc tgtgcncca ngntcggac gccgtgcttg acgcatgcct cgcgaggan 180  
cccgcagca aggtggatgc gagacctgca taagaccaac atggtgatgg tgttcgncga 240

gatcacgacc aaggcgnccg tgg

263

<210> 332

<211> 225

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 332

cgtttgctc ttctccctct tgccgggtccc gaataaagag cagcagcgca agaggtcggt 60

agagcgagaa gaaggcaatg gcggccgaga gcttcctttt cacctcggag tccgtgaacg 120

aggggcaccc cgacaagctg tgcgaccagg tgtcggacgc cgtgcntgac gcatgcctcg 180

cgcaggaccc cgacagcaag gtggcctgcg agacctgcac canga 225

<210> 333

<211> 331

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 333

gtcggatctg agacgagacg agacgannnc cctccccctc aaccggaact tgttttaccc 60

catctcatcc cactgactcc nncacccac ccgcccgcng cctccgccgg atctcgtcgg 120

actcggatcc gcncgaccac gaccaccccg cgtcgcgcc gcgcanagca gcagatcaga 180

gaagatggcc ggactcgaca ccttcctctt cacctcggag tccgtgaacg agggacaccc 240

tgacaagctc tgcgaccagg tctcagatgc tgttctggac gcttgccttg ctgaggaccc 300

tgacagcaag gttgcttgcg agacctgcac c 331

<210> 334

<211> 166

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 334

ggaagaccca ggtgacagtg gagtaccgca acgagggtgg cgccatggtt cccatccgtg 60

tgcacacagt cntcatctct acccagcacg acgagacagt caccaacgac gagattgctg 120

ctgacctgaa ggagcacgtc atcaagccag tcatccccga gcagta 166

<210> 335  
 <211> 170  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 335

ccatggttcc catccgtgtg cacacagtcc tcatctctac ccagcacgac gagacagtca 60  
 ccaacgacga gattgctgct gacctgaagg agcacgtcat caagccagtc atccccgagc 120  
 agtacctcga cgagaagaca atnttccacc tcaaccngtt ggngggttcgt 170

<210> 336  
 <211> 247  
 <212> DNA  
 <213> Zea mays

<400> 336

atcatcaacc tcgacctcaa gaaaggcggc aacgggcgct acctcaagac ggcggcctac 60  
 gggcactttg ggagggacga ccccgacttc acctgggagg tggagaagcc cctcaaggcg 120  
 gagaagccgt cttctgcatg aggcgcctcc tctgtttcgg aagaagcttt tggctctggc 180  
 tgccctgcgct ctatcatgct tttttatggc tcctacgtgt tgtgattctt gatctgcccc 240  
 ttgctta 247

<210> 337  
 <211> 196  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 337

gcagtnccct gatatngctc aggggtgtgca tggccacttc accaagcgcc ccgaggagat 60  
 tngagcnggt gaccagggac acatgttang gtatgcgacc gatgagacnc ctgagttgat 120  
 gccctcagc catgtccttg ccaccaagct aggtgcacgt ntcaaccgag gtccgcaaga 180  
 acggaaccng ccaactg 196

<210> 338  
 <211> 211



<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 338  
  
 ctccctcttg ccggtcccga ataaagagca gcagcgcaag aggtcggtag agcgagaaga 60  
 aggcaatggc ggccgagagc ttccttttca cctcggagtc cgtgaacgag gggcacccccg 120  
 acaagctgtg cgaccagggtg tcggacgccg tgcttgacgc atgcntcgcg caggacccccg 180  
 acagcaaggt ggcttgcgag acctncacca a 211

<210> 339  
 <211> 302  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 339  
  
 gacgagacga gttaccatct catcccaact ccggaacgaa caagttacca tctcatccca 60  
 actnccgcct tcgaccggat ctncgtcgga ctcggatccg cccgaccacc ccgcgccgcc 120  
 gcagatcaaa gaagatggca gctgtcgaca cattcctctt cacctcggag tctgtgaacg 180  
 agggacaccc tgacaagctc tgtgaccagg tctcagatgc cgttcttgac gcttgccctg 240  
 ctgaggaccc tgacagcaag ttgcttgtga gactgcacca agaccaacat ggtcatggtc 300  
 tt 302

<210> 340  
 <211> 263  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 340  
  
 tcgacttcag gcccgggatg atcagcatca acctcgacct gaagaagggc gncaacagggt 60  
 tcatcaagac cgccgcctac ggccacttcg gccgtgacga cgccgacttc acctgggagg 120  
 tgggtgaagcc cctcaagttc gacaaggcat cggcttaagg ttgggagtgt cactgtggac 180  
 atgaggacta ccttcctctg gctctgctgt tacctgcaag cattgctgct ctggatgtgn 240  
 gtgttaatca ganactgctg ctc 263

<210> 341  
 <211> 300  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 341

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 ggttcatcaa gaccgccgcc tacggccact tcggccgtga cgacgccgac ttcacctggg 120  
 aggtggtgaa gcccctcaag ttcgacaagg catcggctta aggttgggag tgtcactgtg 180  
 gacatgagga ctaccttcct ctggctctgc tgttacctgc aagcattgct gctgctggat 240  
 gtgtgtgttt gatcagtgc tggctgctgc tccatagaag atgaacggag agaaggatga 300

<210> 342  
 <211> 249  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 342

atccgtttgc ctcttctccc tcttgccggt cccgaataaa gancagcagc gcaagaggtc 60  
 ggtanagcga gaagaaggca atggcggccg agagtccctt ttcacntcgg agtccgtgaa 120  
 cgagggggcac cccgacaagc tgtgcgacca gntgtcggac gccgtgcttg angcatgnct 180  
 cgcgaggagc cccgacagca aggtggcctg cgagactgca ccaagaccaa nntgggtgatg 240  
 gtgttcggc 249

<210> 343  
 <211> 196  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 343

caatctncca cntcaacccg nctgagncgc ttcgncatcg gcggacctca cggcgacgcn 60  
 ggnctcantg gccggaagat acatcatcga cacctacggn ggctggggag cccacggcgg 120  
 gggcgccctnc tccggcaagg nccccaccaa ggtggacngc agcggggcct acgtcgcgan 180  
 gnaggctgcc aagagc 196

<210> 344  
 <211> 249  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 344  
  
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 cactttggga gggacgaccc cgacttcacc tgggaggtgg tgaagcccct caaggcggag 120  
 aagccgtctt ctgcagaggc gcctcctctg ttttgaaga agcttttggt ctgncctggg 180  
 ctggtctggg gtgccncgcg ctctatcatg cttttttatg gctcctactt gtgattcttn 240  
 atctgcccc 249

<210> 345  
 <211> 143  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 345  
  
 cgactcctac ggcaccggga ccatccccga caaggagatc ctaaagatcg tcaaggagaa 60  
 cttcgacttc aggccaggga tggtcacat caacctcgac ctcaagaagg gcggcaacag 120  
 gttcatcaag accgccgcat ang 143

<210> 346  
 <211> 142  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 346  
  
 ccgagcctct ctccgtgttc gtngacacgt acggcaccgg cgcgatcccc gacaaggaga 60  
 tcctcaagat tgtcaaggag aacttcgatt tcaggcctgg catgatcatc atcaaccttg 120  
 acctcaagaa aggcggcaac gg 142

<210> 347  
 <211> 288  
 <212> DNA

<213> Zea mays  
 <223> unsure at all n locations  
 <400> 347  
 cgagacgagt naccatntca tncccaacnc cggaacgaac aagttaccat ntcatnccca 60  
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 gcagatcaaa gaagatggca gctgtcgaca cattcctctt cacntcggag tctgtgaacg 180  
 agggacacnc tgacaagctc tgtgaanagg tctcagatgc cgttcttgac gcttgcnttg 240  
 ctgaggaccc tgacagcaag gttgcttggtg agaccngcac caagacca 288

<210> 348  
 <211> 288  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 atctcatccc aaccccgctt ccgaccggat ctgcgtcggac tcggatccgc ccgaccaccc 120  
 cgcgccgccg cagatcaaag aagatggcag ctgtcgacac attcctcttc acctcggagt 180  
 ctgtgaacga gggacaccct gacaagctct gtgaccaggt ctgagatgcc gttcttgacg 240  
 cttgcnttgc tgaggaccct gacagcaagg ttgcttggtga gacctgca 288

<210> 349  
 <211> 147  
 <212> DNA  
 <213> Zea mays  
 <400> 349  
 ccgacaagga gatacctaaag atcgtcaagg agaacttcga cttcaggcca gggatgatca 60  
 ccatcaacct cgacctcaag aagggcggca acaggttcat caagaccgcc gcatacggcc 120  
 actttggccg tgacgacgcc gacttca 147

<210> 350  
 <211> 264  
 <212> DNA  
 <213> Zea mays

<223>       unsure at all n locations  
<400>       350

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cttctccctc ttgccggtcc cgaataaaga gcagcagcgc aagaggtcgg tagagcgaga   60
agaaggcaat ggcggccgag agcttccttt tcacctcgga gtccgtgaac gaggggcacc  120
ccgacaagct gtgcgaccag tgtggacgcc gtgcttnacg catgcctcgc gcagaccccg  180
acagcaaggt ggcctgcgag acctgcacca agaccaacaa tgtgatngtg ttcggcgaga  240
tnagancaaa gngactgnga tnca                                           264
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<210>       351  
<211>       235  
<212>       DNA  
<213>       Zea mays

<223>       unsure at all n locations  
<400>       351

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cgcctcttct cctccctcct gccgggtcct tantaaagag cagcagcgca agaggttggt   60
agagcgagcg agaagaaggc aatggcggcg gagagcttcc tgttcacctc ggagtccgtg  120
aacgaggggc acccagacaa gctgtgcgac caggtgtcgg acgcggtcnt gacggcttcc  180
tggngcagga ccccgacagc aaggtggcct gcgagacctg caccaagang aacat       235
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<210>       352  
<211>       211  
<212>       DNA  
<213>       Zea mays

<223>       unsure at all n locations  
<400>       352

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cgtttgctc ttctccctct tgccggtccc gaataaagag cagcagcgca agaggtcggt   60
agagcgagaa gaaggcaatg gcggccgaga gcttcctttt cacctcgag tccgtgaacg  120
aggggcaccc cgacaagctg tgcgaccagg tgtcggacgc cgtgcttgac gcatgcntcg  180
cgcaggaccc cgacagcaag gtggcctgcn a                                   211
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<210>       353  
<211>       212  
<212>       DNA  
<213>       Zea mays

<223>       unsure at all n locations

<400> 353

gtttgcntct tctccctctt gccggtcccg aataaagagc agcagcgcaa gaggtcggta 60

gagcgagaag aaggcaatgg cggccgagag cttccttttc acatcggagt ccgatgaacga 120

gggncaacncc gacaagctgt gcgaccaggt gtcggacgcc gtgcttgacg catgcntcgc 180

gcaggacccc gacagcaagg tggcctgcga ga 212

<210> 354  
 <211> 490  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 354

taaagatcgt caaggagaac ttcgacttca ggccagggat ggtcaccatc aacctcgacc 60

tcaagaaggc cggcaacagg ttcatacaaga ccgccgcata cggccacttt ggccgtgacg 120

acnccgactt cacctgggag gtggtcaagc ccctaaagaa ggcatccgct taagaatgta 180

ttgggaagtt cactggacat gaggttcac ttcgtctggc tctgctgata cctgcaagga 240

tnnnnnnnnn nnnnnnnnnc ctggatgtgt gtttgatcag tgactggctg ctctgctcca 300

tagaagatga atgaagagag agatggtgaa naaggctttg gcaaattggc attgccgaac 360

aagccatgtc gcnccactga ccggcttaat gattggtata atttggtgtg gcaacancca 420

ggattaatgc ccctggncct ttatcnttac tactaanttg ggctngtccg gtatctaatt 480

ttctttccct 490

<210> 355  
 <211> 389  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 355

gnnnagccn ttgananggg gggnttnatg aatcngtacc ggtccggaat tcccgggtcg 60

accacgcgt ccgcggacgc gtgggcctcg acctcaagaa aggcggcaac gggcgctacc 120

tcaagacggn ggctacggg cactttggga gggacgaccc cgacttcacc tgggaggtgg 180

tgaagcccct caaggcggag aagccgtctt ctgcatgagg cgcctcctct gtttcggaag 240

aagcttttgg tctggctctgc ctgcgctcta tcatgctttt ttatggctcc tacgtgttgt 300  
gattcttgat ctgccccttg cttatcattt gtattgtact gtcactgtcc taataagtgg 360  
tacgtgtgcg gggtcgtatt gtgtctgct 389

<210> 356  
<211> 289  
<212> DNA  
<213> Zea mays

<400> 356

gtcggatctg agacgagacg agtccccctcc cccacacctg cctcacccaa ccggaacgaa 60  
caagttacaa tctcatccca accccgcctc gaccggatct cgtcggactc ggatccgccc 120  
gaccaccccg cgccgccgca gatcaaagaa gatggcagct gtcgacacat tcctcttcac 180  
ctcggagtct gtgaacgagg gacaccctga caagctctgt gaccaggtct cagatgccgt 240  
tcttgacgct tgccttgctg aggaccctga cagcaagggt gcttgtgag 289

<210> 357  
<211> 264  
<212> DNA  
<213> Zea mays

<400> 357

gggatgatca gcatcaacct cgacctgaag aagggcgcca acagggttcat caagaccgcc 60  
gcctacggcc acttcggccg tgacgacgcc gacttcacct gggagggtgg gaagcccctc 120  
aagttcgaca aggcacggc ttaagggttg gagtgtcact gtggacatga ggactacctt 180  
cctctggctc tgctgttacc tgcaagcatt gctgctgctg gatgtgtgtg tttgatcagt 240  
gactggctgc tgctccatag aaga 264

<210> 358  
<211> 263  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 358

gggatgatca gcatcaacct cgacctgaag aagggcgcca acagggttcat caagaccgcc 60  
gcctacggcc acttcggccg tgacgacgcc gacttcacct gggagggtgg gaagcccctc 120

aagttcgaca aggcacggc ttaagggttg gagtgtcact gtggacatga ggactacctt 180  
cctctggctc tgctgtnacc tgcaagcatt gctgctgctg gatgtntgtg tttgatcagt 240  
gantggctgc tgctccatag ang 263

<210> 359  
<211> 268  
<212> DNA  
<213> Zea mays

<400> 359  
gagacgagac gagttaccat ctcaccccaa ctccggaacg aacaagttac catctcatcc 60  
caactccgcc tcgaccggat ctgctcggac tcggatccgc ccgaccaccc cgcgccgccg 120  
cagatcaaag aagatggcag ctgtcgacac attcctcttc acctcggagt ctgtgaacga 180  
gggacaccct gacaagctct gtgaccaggc ctcagatgcc gttcttgacg cttgccttgc 240  
tgaggaccct gacagcaagg ttgcttgt 268

<210> 360  
<211> 289  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 360

gtcggatctg agacgagacg agtccctcc cccacctnc gcctcaccca accggaacga 60  
acaagttaca attctcatcc caaccccgcc tcgancggat ctgctcggac tcggatccgc 120  
ccgaccaccc cgcgccgccg cagatcaaag aagatggcag ctgtcgacac attcctcttc 180  
acctcggagt ctgtgaacga gggacaccct gacaagctct gtgaccaggc ctcagatgcc 240  
gttcttgacg cttgccttgc tgaggaccct gacagcaagg ttgcttgtg 289

<210> 361  
<211> 252  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 361

ctcttctccc tcttgccggt cccgaataaa gagcagcagc gcaagaggtc ggtagagcga 60



gaagaaggca atggcgccg agagcttcct ttccacctcg gaggccgtga acgaggggca 120  
 cccgacaagc tgtgcgacca ggtgtcggac gccgtgcttn acgcatgcct cggcaggacc 180  
 ccgaaacaag tggctggaga ccttcaccaa gancaatntg gtgatgggtg tcggngaate 240  
 acgacaaggc ga 252

<210> 362  
 <211> 246  
 <212> DNA  
 <213> Zea mays

<400> 362

gacgagcatc aacctcgacc tgaagaaggc cggaacagg ttcacgaaga ccgccccta 60  
 cggccacttc gccgtgacg acgccgactt cacctgggag gtggtgaagc ccctcaagtt 120  
 cgacaaggca tcggcttaag gttgggagtg tcaactgtga catgaggact accttcctct 180  
 ggctctgctg ttacctgcaa gcattgctgc tgctggatgt gtgtgtttga tcagtgactg 240  
 gctgct 246

<210> 363  
 <211> 240  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 363

cgacctggnc gnggacgcgt ggcngaagc cgtngggccc ggcctcganc cgccnccca 60  
 ttgtccagga tntcctacgc cangcggctg cccanaccc ctttcgggtg tcgtggacac 120  
 gtacggcacc ggcgcgatcc ccgacaagga gacctgaag atcgtgaagg agaacttcga 180  
 cttcaggccc ggcattgntca tcatcaacct cgacctcaag aaaggcngca agggcgact 240

<210> 364  
 <211> 270  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 364

gacgagacga gtcccctccc cccacctacg cctcacccaa ccggaacgaa caagttacaa 60

tctcatccca accccgcctn cgaccggatc tcgtcggact cggatccgcc cgaccacccc 120  
 gcgcccgcgc agatcaaaga agatggcagc tgtcgacaca ttctctttca cctcggagtc 180  
 tgtgaacgag ggacaccctg acaagctctg tgaccaggtc tcagatgccg ttcttgacgc 240  
 ttgccttgct gaggaccctg acagcaaggt 270

<210> 365  
 <211> 252  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 365

ttctagatcg cgggcgggccg ctcgcccacg cgtcogatcc ccgttcgcct cttctcctcc 60  
 ctctgcccgc gtccttaata aagagcagca gcgcaagagg ttggtagagc gagcgagaag 120  
 aaggcaatgg cggcgggagag cttcctgttc acctcggagt ccgtgaacga ggggcaccca 180  
 gacaagctgt gcgaccaggt gtengacgcn gtgctggacg cctgcctggc gcaggacccc 240  
 gacagcaagg tg 252

<210> 366  
 <211> 320  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 366

gtcggatctg agacgagacg angngncct cccctcaacc ggaacttggt ttaccccatc 60  
 tcatcccaact gactcngcc acccannann ncntgcctc cgccggatct cgtcggactc 120  
 ggatccgccc gaccacgacc accccgcgcc gccgccgcgc agagcagcag atcagagaag 180  
 atggccggac tcgacacctt cctcttnacc tcggagtccg tgaacgaggg acaccctgac 240  
 aagctctgcg accaggtctc agatgctggt ctggacgctt gccttgctga ggaccctgac 300  
 agaaagttgt tgcgagactg 320

<210> 367  
 <211> 274  
 <212> DNA  
 <213> Zea mays

<400> 367

ggccgggtcg gatctgagac gagacgagtt accatctcat cccaactccg gaacgaacaa 60  
gttaccatct catcccaact ccgcctcgac cggatctcgt cggactcgga tccgcccgcac 120  
caccgccgcg cgcgcgagat caaagaagat ggcagctgtc gacacattcc tcttcacctc 180  
ggagtctgtg aacgagggac accctgacaa gctctgtgac caggtctcag atgccgttct 240  
tgacgcttgc cttgctgagg accctgacag caag 274

<210> 368

<211> 271

<212> DNA

<213> Zea mays

<400> 368

gtcggatctg agacgagacg agttaccatc tcatcccaac tccggaacga acaagttacc 60  
atctcatccc aactccgcct cgaccggatc tcgtcggact cggatccgcc cgaccacccc 120  
gcgccgcccgc agatcaaaga agatggcagc tgtcgacaca ttctctttca cctcggagtc 180  
tgtgaacgag ggacaccctg acaagctctg tgaccaggtc tcagatgccg ttcttgacgc 240  
ttgccttgct gaggaccctg acagcaagtt g 271

<210> 369

<211> 274

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 369

gacgagacga gtcccctnac cccacctac gcctcaccca accggaacga acaagttaca 60  
atactgcac ccaacccgc ctcgaccgga tctcgtcgga ctccgatccg cccgaccacc 120  
ccgcgcgcgc gcagatcaaa gaagatggca gctgtcgaca cattcctctt cacctcggag 180  
tctgtgaacg agggacaccc tgacaagctc tgtgaccagg tctcagatgc cgttcttgac 240  
gcttgccctt ctgaggaacc tgacagcaag gttg 274

<210> 370

<211> 203

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 370

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ctcttctccc tcttgccgnt cccgaataaa gagcagcagc gcaagaggtc ggtagagcga 60
gaagaaggca atggcgggcg agagcttcct ttacacntcg ggtccgtga acgaggggca 120
cgccgacaag ctgtgcgacc aggtgtcgga cgccgtgctt gacgcatgcc tcgcgagga 180
cnccgacagc aagtggcctg cga 203
```

<210> 371

<211> 201

<212> DNA

<213> Zea mays

<400> 371

```
gcctcttctc ctccctcctg ccgggtcctt aataaagagc agcagcgcaa gaggttggtgta 60
gagcgagcga gaagaaggca atggcgggcg agagcttcct gttcacctcg ggtccgtga 120
acgaggggca ccagacaag ctgtgcgacc aggtgtcgga cgcggtgctg gacgcctgcc 180
tggcgagga ccccgacagc a 201
```

<210> 372

<211> 307

<212> DNA

<213> Zea mays

<400> 372

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tcagcatcaa cctcgacctg aagaagggcg gcaacagggt catcaagacc gccgcctacg 60
gccacttcgg ccgtgacgac gccgacttca cctgggaggt ggtgaagccc ctcaagttcg 120
acaaggcatc ggcttaaggt tgggagtgtc actgtggaca tgaggactac cttcctctgg 180
ctctgctgtt acctgcaagc attgctgctg ctggatgtgt gtgtttgatc agtgactggc 240
tgctgctcca tagaagatga acggagagaa ggatgatgaa gggctttggc aatcgccgct 300
gcaactg 307
```

<210> 373

<211> 283

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
<400> 373

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gtcttacgcc atcgggtgcc cgagcctctc tccgtgttcg tcgacacgta cggcaccggc 60
gcgatccccg acaaggagat nctcaagatt gtcaagngaa ttcgatttca ggccctggcat 120
gatcatcatc aaccttgact caagaaaggc ggcaacgggc gctactcaag acgcggccta 180
cggcactttg gaaggagacc tgattcactg ggagtgggtga accatcaatg gagaacttgc 240
tcnnngctat tatataantt gtgcgttctg actatngtta nag 283
```

<210> 374  
<211> 181  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 374

```
cttgccggtc ccgaataaag agcanncagc gcaagagntc ggtagagcga caagaaggca 60
atggcgcccg agagcttctt ttccacctcg gagtccgtga acgaggggca ccccgacaag 120
ctgtgcgacc aggtgtcgga cgccgtgctt gacgcatgcc tcgcgagga ccccgacagc 180
a 181
```

<210> 375  
<211> 201  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 375

```
ctgccgggtc cttaataaag agcagcagcg caaggngagc cgccagcttg cccaggttg 60
gtagagcgag cgagaagaag gcaatggcgg cggagagctt cctgttcacc tcggagtccg 120
tgaacgaggg gcacccagac aagctgtgcg accaggtgtc ggacgcggtg ctggacgcct 180
gcctggcgca ggaccccgac a 201
```

<210> 376  
<211> 216  
<212> DNA  
<213> Zea mays

<400> 376

acatccatcc ccggttcgcct cttctcctcc ctccctgccg gtccttaata aagagcagca 60

gcgcaagagg ttggtagagc gagcgagaag aaggcaatgg cggcggagag cttcctgttc 120

acctcggagt ccggtgaacga gtggcaccca gacaagctgt gcgaccaggt gtcggacgcg 180

gtgctggacg cctgcctggc gcaggacccc gacagc 216

<210> 377

<211> 130

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 377

gtcgaacgat gtcgggcttg acgctgacca ctgcaagggtg cntgtgaaca ttgagcagca 60

gtcccctgat attgcncagg gtgtgcacgg ccacttcacc aagcgccccg aggagattng 120

agctggtgac 130

<210> 378

<211> 306

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 378

gtcggatctg agacgagacg agacgatccc ccctcncctc aaccggaact tgttttaccc 60

catctcatcc cactgantcc acccaccac cgcgccgntg cntccgccg atntcgtcgg 120

actcggatcc gcccgaccac gaccaccccg cgtcgccgcc gcgcanagca gcagatcaga 180

gaagatggcc ggactcgaca ctttctctt cacctcggag tccgtgaacg agggacaccc 240

tgacaagctc tgcgaccagg tctcagatgc tgttctggag gnttgccttg ctgaggaccc 300

tgacag 306

<210> 379

<211> 313

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 379

gagacgagac gannnnccct cccctcaacc ggaacttggt ttaccccatc tcatcccact 60  
gactccancn acccaccgcg ncgctgcctc cgccggatct cgtcggactc ggatccgccc 120  
gaccacgacc accccgcgct gccgcccgcg agagcagcag atcagagaag atggccggac 180  
tcgacacctt cctcttcacc tcggagtcg tgaacgaggg acaccctgac aagctctgga 240  
ccaggtctca gatgctgttc tggacgcttg ccttgctgag gacctgacag caaggttgct 300  
tgggagacct gca 313

<210> 380

<211> 134

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 380

gcngacctca nggagcacgt catcaagcnc gtgatccctg agaagtacct cgacgagang 60  
accatcttcc acctcaaccc gtccggggcg ttcgtcatcg gcngggccca cggtnacncc 120  
ngcntcacng gtgc 134

<210> 381

<211> 294

<212> DNA

<213> Zea mays

<400> 381

ccgggtcgga tctgagacga gacgagttac catctcatcc caactccgga acgaacaagt 60  
taccatctca tcccaactcc gcctcgaccg gatctcgtcg gactcggatc cgcccgacca 120  
ccccgcgccg ccgcagatca aagaagatgg cagctgtcac acattcctct tcacctcgga 180  
gtctgtgaac gagggacacc ctgacaagct ctgtgaccag gtctcagatg ccgttcttga 240  
cgcttgccctt gctgaggacc ctgacagcaa ggttgcttgt gagactgcac caag 294

<210> 382

<211> 164

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 382

cctgagttga tgcccctcag ccatgtcctt gccagcaaac taggtgctcg tntcaccgag 60  
gtccgcaaga gcggaacct gccctggct acaggcctga tgggaagacc caggtgacag 120  
tcgagtaccg cantgagggt ggtgccatgg tccccatccg tntc 164

<210> 383  
<211> 247  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 383

cggagaaacc ttctgnctaa ggccgccgtn ttgaggtagn gnccgtngcc gactttcttg 60  
nggnnnaggt tgatnatgat catgccaggc ctgaaatcga agttctcctt gacaatcttg 120  
aggatctcct tgtcggngat cagngccagt gcacgtacag ngtcnacgaa cacnganaga 180  
ngctcgggca ctccnntnnc ngtaagacan ctggacnatg gttagtgnaa gtnatncnt 240  
tgaanac 247

<210> 384  
<211> 207  
<212> DNA  
<213> Zea mays

<400> 384

cacgtctaata cagacatctt actcagaagt catctttgct tgccgggtccc gaataaagag 60  
cagcagcgca agaggtcggg agagcgagaa gaaggcaatg gcggccgaga gcttcctttt 120  
cacctcggag tccgtgaacg aggggcaccc cgacaagctg tgcgaccagg tgcgagacgc 180  
cgtgcttgac gcatgcctcg cgcagga 207

<210> 385  
<211> 292  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 385

gggtcggatc tgagacgagg cgagacgacc cccctcccc tcaaccggaa cttgttttac 60  
cccatctcat cccacagnct ccacccannc gcccgctgcc tccgccgat ctcgtcggac 120



tcggatccgc ccgaccaccc cgcgccgccg ccgcgcagag cagcagcaga tcagagaaga 180  
 tggccggact cgacaccttc ctcttcacct cggagtcctg gaacgaggga caccctgaca 240  
 agctctgcga ccaggtctca gatgctgttc tggacgcttg ccttgctgag ga 292

<210> 386  
 <211> 142  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 386

cgcgcgctc accgaggtgc gcaagaacgg nncacctgcg cctggctgag gcccgcggc 60  
 aagaccagg tgacggtgga gtacntgaac gagggcgcg ccatggtgcc cgtccgcntg 120  
 cacaccgtgt catctccaca ca 142

<210> 387  
 <211> 137  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 387

gngggcgacc agggccacnt gnnccgggtac gccaccgacg agacccccga gctgatgcng 60  
 ctgagccacg ngntggccac caagntgggc gcgcgcntca ccgangngcg caagaacggc 120  
 acntggcncn tggnnnga 137

<210> 388  
 <211> 159  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 388

gaaaggcggc aacggggcgt acctcaagac ggcggcctac gggcactttg ggaggnacga 60  
 ccccgacttc acctggnagg tggatgaagcc cctcaaggcg gagaagccgt cttctgcatg 120  
 aggcgcctcc tctnttttgn aagangcttt tggtcnggt 159

<210> 389

<211> 268  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 389  
  
 gacgagacga gtccccctccc cccacctcgc ctcacccaac cggaacgaac aagttacaat 60  
 ctcatcccaa ccccgccctcg accggatctc gtcggactcg gatccgcccg accaccccgc 120  
 gccgccgcag atcaaagaag aggcagctgt cgacacattc ctcttcacct cggagtctgt 180  
 gaacncggga caccctgaca agctctgtga ccangtctca gatgccgttc ttgacgcttg 240  
 ccttgctgag gaccctgaca gcaagggtt 268

<210> 390  
 <211> 282  
 <212> DNA  
 <213> Zea mays  
  
 <400> 390  
  
 aagaagggcg gcaacagggt catcaagacc gccgcctacg gccacttcgg ccgtgacgac 60  
 gccgacttca cctgggaggt ggtgaagccc ctcaagttcg acaaggcatc ggcttaaggt 120  
 tgggagtgtc actgtggaca tgaggactac ctctctctgg ctctgctgtt acctgcaagc 180  
 attgctgctg ctggatgtgt gtgtttgatc agtgactggc tgctgcttcc atagaagatg 240  
 aaggagagaa ggatgatgaa gggctttggc aatcgccgcg ca 282

<210> 391  
 <211> 272  
 <212> DNA  
 <213> Zea mays  
  
 <400> 391  
  
 caacggggcg tacctcaaga cggcggccta cggccacttt ggaagggacg accctgactt 60  
 cacctgggag gtggtgaagc cactcaagtc ggagaaacct tctgcctaag gcggcctttt 120  
 tttttcagta agaagctttt ggtggtctgc tgtgcttaat catgctttta tatggcttct 180  
 acatgttgtg gttctttctt gatctgcacc gcgcttatcg tttgtgttgt actgcctaa 240  
 taagtgggtgc tatgaggact gtttctgggt tt 272

<210> 392  
 <211> 291  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 392  
  
 cggatctgag acgagacgag acgannnncc ctcccctcaa ccggaacttg ttttacccca 60  
 tctcatccca ctgncctccn gccaccacc cgcncgctgc ctccgccgga tctcgtcgga 120  
 ctcggatccg cccgaccacg accaccccg cgtcgccg ccgagagcag cagatcagag 180  
 aagatggccg gactcgacac cttcctcttc acctcgaggt ccgtgaacga gggacaccct 240  
 gacaagctct gcgaccaggt ctcagatgct gttctggacg cttgccttgc t 291

<210> 393  
 <211> 531  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 393  
  
 agnnnnnnnn natntaatga atttnangaa tgctctaccn gnaattcccg ggtcgaccca 60  
 cgcgtccgnc cacncgtccg angagatcct caagatcgng aaggagaact tcgacttcag 120  
 gcccnngnatg atcagcatca acctngacct gaanaaggnc ggcaacaggt tcatcaagac 180  
 cgacgcctac agtcacttcn gncgtgacga cncgcactta cctggnaggt ggtgaacccc 240  
 tcaagttcga caaggcatcg ncttaaggct gngaagtgc cactgtggac attgaggact 300  
 accttactct ggctctgntg gtacctgcaa agcattggct gctgatggat gtntgngnct 360  
 gatcaagnga ctggctgctg cttcatanna gatntaccgg aganaaagat gatgnataaa 420  
 ggcttnggca atcggcggtt canctgnaac ccatgccatt ccgcttanng aatggggata 480  
 anttggcttg gaaanaanca tcattattat ggncgtgaact ttcattctta c 531

<210> 394  
 <211> 572  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 394

gggggnnnng gnaacttcta tntcgnccgc cacggtccaa aaaatcccgg ggtccgaccc 60  
 acgcgttccg aggcnaacttt tctcccggca aagggaacca aaccaaaggg tttgaaccnc 120  
 aagccgggaa ccctaanttt cgcaaagggg caanggctng cccaaagaac caatccgtcc 180  
 gcccaagccg ggccctttgc ctccgcccgc cgccaatccg ttccaangat tgtcttaacg 240  
 ccaatccngg cgtnnccccg aaacctctct ccgttggttcg tcgacacnta cggcaccngg 300  
 cgcgatcccc gacaaggaan atnctcaaga ttgtcaagga agaacttcna tttcaggcct 360  
 gngcatgata atcatcaacc ttgacctcaa gaaangcggc aacggggcgc tacctcaaag 420  
 acggcggcct aaggccactt tgggaaaggg acnaacctg aattcaacct ggggaagggt 480  
 gttgaaagcc aactcaaaag ttccgaaaaa aanccttctg gcccnaaagg cgggcccttt 540  
 ttttcnagtt aanaaacctt ttgggggggg nc 572

<210> 395  
 <211> 127  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 395

cageggcctt gctcgcngcg ccategtcca ggtgtcttac gccatcggcg tgcccgatnc 60  
 ctctctccgt gttcgtcgac acgtacggca ccggcgcgat ccccgacaag gngatcctca 120  
 agattgt 127

<210> 396  
 <211> 294  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 396

tcggnatctg agacgagacg agacgannnn ccctcccctc aaccggaact tgttttaccc 60  
 catctcatcc cactgactcc nttnancnac ccgcangctg cctccgncgg atctcgtcgg 120  
 actcggatcc gcccgaccac gaccaccccg cgtcgcgcgc gcgcagagca gcagatcaga 180  
 gaagatggcc ggactcgaca ccttctcttt cacctcggag tccgtgaacg agggacaccc 240  
 tgacaagctc tgcgaccagg tctcagatgc tgttctggac gcttgcttgc tgag 294

<210> 397  
 <211> 270  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 397

cgantnacca tctcatccnc aactccggaa cgaacaagtt accatctcat ccanacttcc 60  
 gcctcgaccg gatctngtcg gactcggatc cgcccgancca ccccgnggcc gccgcngatc 120  
 ngagaagatg gcagctgtcg acacattcct cttnagctnc ggagtctgtg aacgagggac 180  
 accctgacaa gncctgtgac caggtctcag atgccgtctt gacgcntgcn ttgctgagga 240  
 ccctganagc naaggtgctt gtganacctg 270

<210> 398  
 <211> 284  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 398

catcaacctc gacctcaaga ngggcgggaa caggttcatc aagaccgccg catacggcca 60  
 ctttgggcgt gacgacgccg acttcacctg ggaggtggtc aagcccctaa agaaggcatc 120  
 cgcttaagaa tgtattggga agttcactgg acatgaggtt catcttcgtc tggctctgct 180  
 gataacctgca aggatnnnnn nnnnnnnnnn nnnnnnnnga tgtgtgtttg atcagtgact 240  
 ggctgctctg ctccatagaa gatgaatgaa gagagagatg gtga 284

<210> 399  
 <211> 297  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 399

atctgagacg agacgnngnc nncctcncct caaccggaac ttgttttacc ccatctcatc 60  
 ccantgantc nagnnannca cncgcncgct gntccgncg gatctcttcg gactcggatc 120  
 cgcccgancca cgaccanccc gcgcccgcgc cgcgagagc agcagatcag agaagatggc 180  
 cggactcgac accttctctt tcacctcgga gtccgtgaac gagggacacc ctgacaagct 240

ctgcgaccag gtctcagatg ctgttctgga ngttgcttgc tgangacctg acagcaa 297

<210> 400  
 <211> 279  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 400

gtcggatctg agacgagacg agacgatnnc ccctcccctc aaccggaact tgttttacct 60  
 catctcatcc cacngactcc ncccacccac ccgcccgtg cctccgccgg atctcgtcgg 120  
 actcggatcc gcccgaccac gaccaccccg cgtcgccgcc gcgcagagca gcagatcaga 180  
 gaagatggcc ggactcgaca ccttcctctt cacctcggag tccgtgaacg agggacaccc 240  
 tgacaagctc tgcgaccagg tctcagatgc tgttctgga 279

<210> 401  
 <211> 307  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 401

cggatctgag acgagacgag acgatnnncc ctcccctcaa ccggaacttg ttttacctca 60  
 tctcatccca ctgantctnc ccatccaccc gcccgngcc tccgccggat ctcgtcggac 120  
 tcggatccgc ccgaccacga ccaccccgcg tcgccgccgc gcagagcagc agatcagaga 180  
 agatggccgg actcgacacc ttctctttca cctcggagtc cgtgaacgag ggacaccctg 240  
 acaagctctg cgaccaggtc tcagatgctg ttctggacgt tgcttgctga ggacctgaca 300  
 gcaaggt 307

<210> 402  
 <211> 291  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 402

gtttgcctct tctccctctt gccgggtccc aataaagagc agcagcgcaa gaggtacggt 60

agagcgagaa gaaggcaatg gcggnccgaga gcttcctttt cacctcggag tccgtgaacg 120  
 angggcaccc cgacaagctg tgcgaccagg tttaaaaaan ccgtgcttga cgcattgcctc 180  
 gcgcagaccc cgacagcaag gtggcttncg agacttncac caagaccaca tgggtangttt 240  
 tngnngntgg nncgncaaag nnaangngtt tnanaaaaat ntntnnancc c 291

<210> 403  
 <211> 386  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 403

caagaaagnc ggcaacgggc cgctacctca agacgggggc gnacggccac tttggaaggg 60  
 acgaccctga cttcacctgg gaggtgggtga agccactcaa gtcggagaaa ccttctgcct 120  
 aaggcggcct tttttttcag taagaagctt ttggtgggtct gctgtgctta atcatgcttt 180  
 tatatggctt ctacatgttg tggttctntc ttgatctgca ccgngcttat cgnntnngtt 240  
 gtactgncct aataaatnng tgcttatgan gacttgtnn tggntnnnt antanngttn 300  
 naatgcttta aaacaatgan tgaattncac gccannnttt ttttgagaag taannattat 360  
 tngntaannn gntnngnntn tnnngg 386

<210> 404  
 <211> 144  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 404

tccgtgttcg tcgacacgta cggcaccggc gcgatccccg acaaggagat cctcaagatt 60  
 gtcaaggaga acttcgattt caggcctggc atncatcatc atcaaccttg acctcaagaa 120  
 aggcggcaac gggcgctacc tcaa 144

<210> 405  
 <211> 293  
 <212> DNA  
 <213> Zea mays

<400> 405

agaacttcga cttcaggccc gggatgatca gcatcaacct cgacctgaag aagggcggca 60  
acaggttcat caagaccgcc gcctacggcc acttcggccg tgaacgacgc cgacttcacc 120  
tgggaggtgg tgaagcccct caagttcgac aaggcatcgg ctttaaggttg ggagtgtcac 180  
tgtggacatg aggactacct tcctctggct ctgctgttac ctgcaagcat tgctgctgct 240  
ggatgtgtgt gtttgatcag tgactggctg ctgtccatag aagatgaacg gag 293

<210> 406  
<211> 175  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 406

ggtcaccatc aacctcgacc tcaagaaggc cggcaacagg ttcacatcaaga ccgccgcata 60  
cggccatttg gncgtgacga cgccgacttc acctgggagg tggtaagcc cctaaagaag 120  
gcatccgctt aagaatgtat tgggaagttc actggacatg aggttcatct tcgtc 175

<210> 407  
<211> 219  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 407

agggtgtgca cggccacttc accaagcgcc ccgaggagat tggagctggt gaccaggggc 60  
acatgttttg gntgcgactg acgagacccc tgagtgatgc cctcagccat gtcttgccac 120  
caagctggtg tcgtctcacg gagnccaag atggactgcc ctgntcagcc gtggaagacc 180  
agtgcagtga tacgnagagg tggcatgtcc acggtnnnc 219

<210> 408  
<211> 178  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 408

gccagggatg atcaccatca acctcgacct caagangggc ggcaacaggt tcacatcaagac 60  
cgccgcatac ggccactttg gctgaacgac gccgacttca cctgggaggt ggtcaagccc 120



ctaaagaagg catccgctta agaatgtatt gggaagttca ctggacatga ggttcatc 178

<210> 409  
 <211> 126  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 409

gcaatggcgg cggagagctt cctgttcacc tcggagtcg tgaacgaggg gcacccagnc 60  
 aagctgttcg ancaggtgtc tgangcggtc tggangcctt cctgnntcag gancccgaca 120  
 ntaaag 126

<210> 410  
 <211> 132  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 410

gacctcaaga ngggcggcaa caggttcac aagaccgccg catacggcca ctttggccgt 60  
 gacgacgccg acttcacctg ggaggtggtc aagcccctaa agaaggcatc cgcttaagaa 120  
 tgtattggga ag 132

<210> 411  
 <211> 83  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 411

gtcggangcg gtgctggang cctgcctggn gcagganncc ganagcaagg tggcctgcga 60  
 ganctgcacc aagangaaca tgg 83

<210> 412  
 <211> 133  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 412

gcctcgaccg gatctcgctg gactcggatc cgcccgacca ccccgcgccg ccgcagatca 60  
aagaagatgg cagctgtcga cacattcctc ttcacctcgg agtctgtgaa ngaggganac 120  
cctgacaagc tct 133

<210> 413  
<211> 290  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 413

tcggatctga gacgagacga gacggnnnnc cctcccctca accggaactt gttttacccc 60  
atctcatccc agtgantcnt accacncanc cgcgcgngc ntccgngga tctngtcgga 120  
ctcggatccg cccgaccacg accaccccgc gtcgcccgcg cgcagagcag cagatcagag 180  
aagatggccg gactcgacac ctccctcttc acctcggagt ccgtgaacga gggacaccct 240  
gacaagtctg cgaccaggtc tcagatgtgt ttggacgttg nttgctgagg 290

<210> 414  
<211> 310  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 414

aacaggttca tcaagaccgc cgcataccgc cactttggcc gtgacgacgc cgacttcacc 60  
tgggaggtgg tcaagcccct aaagaaggca tccgcttaag aatgtattgg gaagttcact 120  
ggacatgagg ttcattctcg tctggctctg ctgatacctg caaggatnnn nnnnnnnnnn 180  
nnnnnnnnnn gatgtgtggt tgatcagtga ctggctgctc tgctccatag aagatgaatg 240  
aagagagaga tggatgaaga ggctttggca aatggcaatt gccgcagcaa gccatgtcgg 300  
cgccactgac 310

<210> 415  
<211> 85  
<212> DNA  
<213> Zea mays

<400> 415

ctcaggggtgt gcatggccac ttcaccaagc gccccgagga gattggagct ggtgaccagg 60  
gacacatggt cgggtatgcg accga 85

<210> 416  
<211> 166  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 416

gagcagcagc gcaaggngan ccgccagctt gccccaggtt ggtagancga gcnagaagaa 60  
ggcaatnncg gcggagagtt cctgttcacn tcggagtccg tgaacgangg gcacccagac 120  
aagctgtgcg accaggtntc ggacgcggtg ctggacnccg gcntgg 166

<210> 417  
<211> 267  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 417

aagacggcgg cctatggcca ctttggaagg gacgaccctg acttcacctg ggaggtggtg 60  
aagccactgc aagtcggaga aaccttctgc ctaaggcggc cttttttttc agtaagaagc 120  
ttttggtggt ctgctgtgct taatcatgct tttatanggc ttctacatgt tgtggttctt 180  
tcttgatctg caccgcgctt atcgtttggt ttgtactgcc ctaataagtg gtgcttatga 240  
ggactgtttc tggttttgct gcttatg 267

<210> 418  
<211> 273  
<212> DNA  
<213> Zea mays

<400> 418

acgacccccga cttcacctgg gaggtggtga agcccctcaa ggcggagaag ccgtcttctg 60  
catgaggcgc ctctctgtgt ttggaagaag cttttggtct ggtctggtct ggtctggtgt 120  
gcctgcgctc tatcatgctt ttttatggct cctacttggt attcttgatc tgccccttgc 180  
ttatcatttg tactgtactg tcaactgtcct aataagtggg acgtgtgcgg ggtcgtattg 240

tgtctgctta ttcacctaga ggattatttc tgg

273

<210> 419  
<211> 57  
<212> DNA  
<213> Zea mays

<400> 419

atcgctgctg acctgaagga gcatgtcatc aagcctgtca tccctgagca gtacctt 57

<210> 420  
<211> 235  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 420

gtcggatctg agacgagacg nngnnnccct cccctcaacc ggaacttggt ttaccccatc 60  
tcatcccact gactcngncc acccaccann ncantgcctc cgccggatct cgtcggactc 120  
ggatccgccc gaccacgacc accccgcgcc gccgccgcgc acagcagcag atcagagaag 180  
atggccggac tcgacacctt cctcttcacc tcggagtccg tgaacgaggg acacc 235

<210> 421  
<211> 297  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 421

gccaaaggat gatcaacaat ccaacntcga nctccaagaa ngggcggnaa caggttcac 60  
aagaccgccg catacggcca ctttggccgt gaacgacgcc gacttcacct gggaggtggt 120  
caagccccta aagaaggcat ccgttaagaa tgtattggga agttcactgg acatgaggtt 180  
catcttcgtc tggctctgct gatacctgca aggatnnnnn nnnnnnnnnn nnnnnnnnga 240  
ttgtgtttga tcagtgactg gctgctctgc tccatagaag atgaatgaag agagaga 297

<210> 422  
<211> 88  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<400> 422

cacncacgag accgtcacca acgacgagat cgccgccgac ctcaaggagc acgtcatcaa 60

gcccgtgata cctgagaagt acctgcga 88

<210> 423

<211> 285

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 423

ccgggtcggg tctgagacga gacgagttac catctcatcc caactccgga acgaacaagt 60

taccatctca tcccaactcc gcctcgaccg gatctcgctg gactcggatc cgcccgacca 120

ccccgcgcng ccgcagatca aagaagatgg cntcgctgac acattcctct tcacctcgga 180

gtctgtgaac gagggacacc ctgacaagtc tgtgaccagg tctcagatgc cgttcttgag 240

cttgcnttgc tgaggaccct gacagcaagg ttgttgtgag actgc 285

<210> 424

<211> 136

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 424

accacgacca cccgcgctcg ccgccgcgca naggcagcaga tcagagnaga tagccggatc 60

tgcacacnt cctcttcacc tcggagtccg tgaacgaggg acaccctgac aagctctgag 120

accaggtctc agatgc 136

<210> 425

<211> 217

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 425

cgagacgagt nncctcccc cactcgcct caccgaaccg gaacgaacaa gttacaatac 60

tcacccaac cccgccttcg accggatctc gtcggactcg gatccgccc accaccccg 120

gccgccgcag atcaaagaag atggcagctg tcgacacatt cctcttcacc tcggagtctg 180  
tgaacgaggg acacctgac aagctctgtg accaggt 217

<210> 426  
<211> 231  
<212> DNA  
<213> Zea mays

<400> 426  
cggatctgag acgagacgag ttaccatctc atcccaactc cggaacgaac aagttaccat 60  
ctcatcccaa ctccgcctcg accggatctc gtcggactcg gatccgccc accaccccgc 120  
gccgccgcag atcaaagaag atggcagctg tcgacacatt cctcttcacc tcggagtctg 180  
tgaacgaggg acacctgaca agctctgtga ccaggctcaa tgccgttctt g 231

<210> 427  
<211> 85  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 427  
agtacctcga ngagaagacc atcttccacc tcaacccgtc cgggcgcttc gtcacgcggnn 60  
ggntcgangg tgacgtnggc ctcat 85

<210> 428  
<211> 142  
<212> DNA  
<213> Zea mays

<400> 428  
caaccccgcc tcgaccggat ctgctcggac tcggatccgc ccgaccaccc cgcgccgccg 60  
cagatcaaag aagatggcag ctgtcgacac attcctcttc acctcggagt ctgtgaacga 120  
gggacaccct gacaagctct gt 142

<210> 429  
<211> 151  
<212> DNA  
<213> Zea mays

<400> 429

cgttcgcctc ttctcctccc tcctgccggg tccttaataa agagcagcag cgcaagaggt 60

tggtagagcg agcgagaaga aggcaatggc ggcgagagct tcctgttcac ctcgaggtcg 120

gtgaacgagg ggcacccaga caagctgtgc g 151

<210> 430

<211> 257

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 430

agtgtcctc ctcctatgaa gaaggactct ccacgttctc nccgtcaaag cagtggaaaa 60

cagatttggg cgaggtagca acagcgtctt cagcagcgca gaagctctgg tatacgagga 120

gcccgcctcc aggcagctcc tgctccacca tgttggtgca gtcataagacc aaatctgttt 180

tccactgctt tgacggcgag aantgganna gtgtcctcc tcctatgaag aaggactaca 240

aactagctaa tcttctc 257

<210> 431

<211> 220

<212> DNA

<213> Zea mays

<400> 431

aaagagatga cgaagctctc ggggattcat gagatcattc ccgagatgga gatctgtgac 60

tttgagtttg acccctgtgg gtactcgatg aatggcgtct tcgggcctgc agcctccacc 120

atccacgtga caccgagga aggtttcagc tacgcaagct acgaagctat gaacttcgac 180

cccagctcac tggctacag cgatgtgatc aggagggtcc 220

<210> 432

<211> 240

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 432

gggagaaatt cgtgagatct tggnnctgtnt cagggcgtgc gagcncctgga atcatgggtt 60

tcacacatag cttcgnctnt tngaatttna tgtactaatg gagtcnaagg gtggcaaaaa 120  
 gtcnnncngt agtcgttcta tgggtgatga agcgccctt ggctacagca ttgaggncgt 180  
 tcgacctgcc ggagcgtgaa gaantccagc tgcggcttac tcgaactgcg ngaatnagcg 240

<210> 433  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 433

cttgtgtcgg tagttttccg ttggctctgg ctgccttctt ctgcttctga gattccaact 60  
 tgtcttgccc atctctctt ttctctctc atctctctt tcttgcaaca cgtcatccag 120  
 tggcgatgtc ttcagcagat tcttgtgtct cttctctgc ctccctatt ggctttgagg 180  
 gctatgagaa gcgcctcgag atcacgttct ctgacgcgcc tgtctttgag gacccttggt 240  
 gtcgtggcct gcgcgcctc tcc 263

<210> 434  
 <211> 290  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 434

taatgctgat ggcaacacaa cattagtctt gaagaagaat gaagctttct tcaagactaa 60  
 tgctgatggc aacacaacat anttccaagg aatgacgaa gctctctggt atctctgaaa 120  
 ttatccctga gaaggagatc tgtgattttg acttogaacc ctgcggctac tccatgaatg 180  
 caatccatgg ctctgcgttc tccacgatcc atgtgacgcc tgaggatggg ttcagctacg 240  
 ccagttatga ggttatgggc ttggatgcca ctgcctgtc ttacggtgac 290

<210> 435  
 <211> 258  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 435

tggagcagga gctgcctgga ggcgggctcc tcgtgtacca tngcttctgt gntgctgaag 60



acgctgttgc tacctcgccc aaatctgttt tccacngcnt tganggcgag aacgtggaga 120  
 gtgctcctcn tcgnntgagg agganancaa gnggnaang ttctntgttg ggagnatnan 180  
 acgggntgcc atggaggaga nggcgggatt ccttgatgag taatangggg ctctgggntc 240  
 gattagcttc tgattggt 258

<210> 436

<211> 263

<212> DNA

<213> Zea mays

<400> 436

cttgctctaa aacaatcgca gtcctgcaag ttgttgctgc tgctcctacc cctgcctctg 60  
 caattgggtt tgagggatat gagaagcgcc tcgagatcag cttctatgag gcacctgtct 120  
 tcgctgacct caacggaagg ggattgtgtg cactcttgcg tccctagatt tactctatct 180  
 ctgacctgac acggtgcacc gttgtctctg agctatcaaa cgaggacttt gactctatgt 240  
 cttatctgag tcaagcctgt ttg 263

<210> 437

<211> 266

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 437

cccaganatg gagatctgtg acttcgactt cnagccctgt ggctactcca tgacatgctg 60  
 ttcatggcnc tgcnattgtc gaccattcat gnganccnc aggacgggca tcagctaata 120  
 aaagcaacan ggncatgggc nttaanccgg ggctcctttc tcatatggtn anctggntaa 180  
 ganggtgctg aagnnntttt gncnactga ntncnctggt gncgtaacct atcttccggt 240  
 gatcgggcaa tgcgaagacc tggggg 266

<210> 438

<211> 281

<212> DNA

<213> Zea mays

<400> 438

gggctgcccc gtgtaggcaa gtcaaccatc atgagcgagc tttattaata tgatgcaagc 60  
 tacctggttt ggtggtaatg cttatgtgat tgggtgattct gcaaagcata agcagaagtg 120  
 gcacgtctac tatgccacca ctgagcaccc ctgaggagct tgttgttact cttgagatgt 180  
 gcatgactag gctggacaag aagagagctt atgtcttctt caagacctct attgatgggt 240  
 acacatcttg tgctaaggat atgaccaagc cttcagtgat t 281

<210> 439  
 <211> 334  
 <212> DNA  
 <213> Zea mays

<400> 439

gcagaagtgg cacgtctact atgccaccac tgagcacccc taaggagctt gttggttactc 60  
 ttgagatgtg catgactagg ctggacaaga agagagctat gtcttcttca agacctctat 120  
 tgatgggttac acatcttggtg ctaaggatat gaccaagcct tcagtggcat cgtcaaggag 180  
 tgcgtcgtga ccagtgggtgc tagcagcaag gccatggcac tcagggtcca tgggtcgtgg 240  
 gtgtggcttg ttcagcgcct actattcgcg ggagtcggcg aggtgcctgc tgaacttggt 300  
 ggaagtggag tccattatga tctgacacga cctc 334

<210> 440  
 <211> 349  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 440

catctatcct ctgaagattg tcatcaagac ctgtggcact accaagctcc tgctcacaat 60  
 tccaaggatc ctagagcttg tgaagagctg tctatgctct tgtgctgtga antatccccg 120  
 gggacgttca tctttcctgg cgnacagcag cccccaccg gagttctccg aggagttgtg 180  
 tattaaccgt actttggggg ctgaagtctg gtggcatgct tatgtgattg gagatgcagc 240  
 aagaccagga cagaagtggc acatctatac gccactgagt acccagagca accatgtcac 300  
 cttgagatgt gcatgatggg tggacagaag aagcttcac ttcttcaag 349

<210> 441  
 <211> 260

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 441  
  
 tttctcttat ggngacctgg ntaagagggg gctgaggcgc ttnggtccaa ctgagcnctc 60  
 tgttgccgtg accatcttcg gtgatcgga caatgcgaag acctggggga cgaaactgna 120  
 tgctgaggcc tatgcttgca gcaacatggc tgagcaggag cttgccgatt ggtggcttgc 180  
 tcatctatca gagcttcact gttacggccg aancgacctn tgnttcccag ngcaaactc 240  
 gnaaattccg ggnaaantaa 260

<210> 442  
 <211> 447  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 442  
  
 cgtccctgca cacggcgggtt ttcagactgc gatccattcc gagcttcgag gaatcgatgg 60  
 tcnagcttcg gtgactaaga gatcaaaactc ttcaagttct acgaggctga agatcctgag 120  
 catctgtttg gtgaagattc ttatgccatg gaaattcatc gattgatacc gtccttttca 180  
 tagtcgatca tggttcaagg agattgcatt tgtggatgct ctaatggagt cgaaagggtg 240  
 taagaaagtc nnnnnnnnnn nnnnnnnnnnt tcatgtacga agctcccctt ggctacaaga 300  
 tcgaggacgt tcgcccagcc ggaggaatca agaagttcca gactgctgct tattccaact 360  
 gcgtccgcca gccatcctga tatcgctca catgcaattc gcggtagagt aggattttaa 420  
 ttcagttttc ctcttgngtc ngnaggt 447

<210> 443  
 <211> 192  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 443  
  
 gggctgagac ttcgannacg agccctnttg ctattncatg aatgctgnaa atnanccggg 60  
 gttggggana attcatntga gncnagagga cngattnagc tatgcaagct annagggtcat 120

gggctngaac ccgactctt tntgttatgg tgacctgcct aanagggagc tgangngctn 180  
 nggtccaaat ga 192

<210> 444  
 <211> 376  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 444

caaagctnnt gctcgctatt ccgaggntcc ttgnactngn tgaanagctc cngttgcnac 60  
 tcgctgcagt taaanactnn cgtggaacgt ncatattccn tgaagcacan ccnttcnnac 120  
 acaagaactt ngntgacgag gttgccttcc tgaatngctt attcngtggn ctnaagtncn 180  
 gnngcaatgc ttatgtgant ggtgactctg ccaancccg nagaagtgn cacgtctact 240  
 acacnnctga gcacctgan gagcctgttn gnactctgga gatgtgcatg actgggctgg 300  
 acaagancaa agcttcatgn cntcttcaag accactgnnt gatggttact cgctnatncg 360  
 ccaaggatat caccaa 376

<210> 445  
 <211> 502  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 445

gtgctagtgg cnangnnntn nngtatnaan gacacactcc ggtncggaat tcccgggtcg 60  
 acccacgct ccgcggaacg gtgggggttg caaagaattn cctnccctac cgtcgctcgc 120  
 gctcgtctgg nngggaagtt ccnggaccen ngatttngcc caattctnag gnaaaaannc 180  
 ggtttacntn ncttaaccen gggntttctn cctntngtng ttgttaaagg ganaaaattn 240  
 tnagatctgt tccggatcaa gcgtgcganc tcgggaatca agggttttna cacatatctt 300  
 ttccatttga aaattgatnt actaaatggn gtctanaagg tggcaaaaag tctnacaata 360  
 gtcgtttctat natgtatgaa gtcctccttn gctncagcat tnaggacgtt cgacctgccc 420  
 gangcctnaa gaaatttcca gtctnctgct tactncaact tcncnaaaaa accattctga 480  
 tatccttttg cttntcaat nt 502

<210> 446  
 <211> 160  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 446

agtnngctgca cttaaccgtt nctttggcgg cctgaaatct ggtggnangg gcgggtgtga 60  
 tnggagatcc agcaagacct ggncagaagt ggcacttntt nnaacgnan tnantnccna 120  
 ttancaacca atggttaacc tanaaatgtg catnactgna 160

<210> 447  
 <211> 487  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 447

attacgtccn ctagcccttc gccnncgctc ttttccntna gaggcgccgg caccgangat 60  
 ccgggncggg ntcnatntnn agaannngna gtacttgtct cagcccgggg nctgctgcgt 120  
 cnggtggtgg tnaaggggag aanntcgtna gatctgntcc ggatcaagcg nncganctcg 180  
 ggaatcaggg gtttcacaca tanctgngnc gatcncgaat tctgatgtac taatggagtc 240  
 taagggnggc aaaaagtcta gccttacnta cncatnatg catagaagct ccccttggtc 300  
 acagcattna cgaccgttcg anctgtceng aggcgtgaaa aagntccnnt acngctgctt 360  
 actccaactt gcgcgaaaca ancntcctg aanantcccc ttttggttc ctcattctaa 420  
 gcactttaag gaattttaat ntctggacac ttntggantr ttnaccaaen ctentctggg 480  
 cctaggg 487

<210> 448  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 448

gagganntcg ttgagatcta agatagagaa tcgctggggc angngnctgt ggtctgctgc 60  
 gtaggggtgt gntgaanggg agaagtttaa gatctgntcc acagatcacg cgtgcgcgct 120

cgcgaaacgg ggggtccaca catagcttng tcggtttgaa tttgangtac taatggagtc 180  
taaggggtggc aagaantcta gcagnagtcg ttccatgatg natgaagctc cccttggtta 240  
cagcattgaa gacgttcgac ctgccggaag cgccaaagaa gttncagnct tgntgcttaa 300  
ctccaactgg cncaaaagaa nccatnctgn aatccccttt ggnttccccg ntctangagn 360  
ttaagaattc ttttcttgca ctttnaatct taacnaatcc ccctgggctg angnttttnt 420  
gacaaangaa ccaattnc 438

<210> 449

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 449

ctcgattaca aactgtgtac tatgttaatg taatgacata gtttggnatga tacagatcgt 60  
agtgatgttg tttgaagctg tttgtatnaa ctgtntccta ctatcttgta tgaattatga 120  
tgtctgatgt agtntgtatg aactatgtca tattatgttg aatgaagcta ttgcatgccc 180  
ttaaaaaana aaaaccnaag annanaatga tctactccaa ntaacgagnt tatgggcttg 240  
gatgccactg ntntgnntta tgggtgacct gtcaagaggg tgctnctggn ctttngccnn 300  
tnagagtttt acnttgccctt gaccatcttc nncggncgtg gnatgccggg acatnnggna 360  
aggnacttgg tgnanaagtc tttnactggn acanctgtt cgaacangac ttntnttnaa 420  
gcggnctcc 429

<210> 450

<211> 376

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 450

ccaatatctt tactnccgcc cctgcncgta attccctnct ggcncacgc atcncgctga 60  
agacnctntn tntacctcn cccnantntg ttttccactn ctttnaccac gagggngggg 120  
nagattgctc ctncnctat caataangac tacaatctgg ctaatcttct ctgctnaaca 180  
ngaggaatcc ccatgccatn natnaccaag ncnntagtgc ttgatnanta atacntctt 240

ctaagntcca tntncttctg aattgnntat antatatacct cacantttca tanttntcan 300  
tnagttattc tatcaagcat ccaatccatt ctattgtata ttaaaatttn tctctctnta 360  
tncatgtcaa cttcct 376

<210> 451  
<211> 305  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 451

ggaagttgga tgctatcgag gagaaggatg gagtgcttga tgagtaagac gggtttctgg 60  
tgtcgatttg cttctgagtt ttttctntt ttatatcggt gcgatctcgt ggttgctcgtt 120  
tggttagcag ccaagccagg ctattagtac gaagaatgtc gtctataaac atgtgttcct 180  
acgttgccac atgctgagtc aatctgtata cagctagctc taggtgggtca gctgcgtcta 240  
ccacaatgag catacatgta tggataaatc ttctgtgaaa gcattcgatg aataaggggt 300  
gtttt 305

<210> 452  
<211> 276  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 452

atgcaagcac cttttgcgaa ggactgcaag ctggctaatac ttgtctgctt ggaggaagtt 60  
ggatgctatc gaggagaagg atggagtgtc tgatgagtaa gacgggtttc tggctcgatt 120  
tgcttctgag ttttttctt tttatatcgt tgcgatctcg tggatgtcgt ttggtttagca 180  
gccaagccag gctattagta cgaagaatgt cgctataaac atgtgttcct acgtgccaca 240  
tgctgagtca atctgtatac agctantcta ggtggc 276

<210> 453  
<211> 501  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<400> 453

gnaagngttt tgaatggggg ntggggngna annnnnnnct ngtagcggtc ggngngtcgn 60

cccacgcnta cgcgcenntg ntagctcggc ccaaaccgt tcttngntgc tttgatggcg 120

agaatgcagc accttttgcg aaggactgca agctggctaa tcttgtctgc ttggaggaag 180

ttggatgcta tcgaggagaa ggatggagtg cttgatgagt aagacgggtt tctgggtgctg 240

atttgcttct gagttttttt ctttttatat cgttgcgata tcgtgggttg tcggtttggt 300

tagcaagcca agccaggcta ttagtaccaa agaatgtcgn ctataaacat gtgttcctac 360

gttgcacatc ctgagtcnaa tctgtattnc agctagctct aaggtgggtc agcttgcgtc 420

taccacaatg agcataccat gtatggataa atcttctgtg aaagcattcg atgaataagg 480

gttgttttca aaaaaaaaaa a 501

<210> 454

<211> 247

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 454

gtgtcgattt gcttctgagt tntcttcttt ttatatcggt gcgatctcgt gggtgtcggt 60

tggttagcag ccaagccagg ctattagtag gaagaatgct gtctataaac atgtgttcct 120

acgttgccac atgctgagtc aatctgtata cagctagctc taggtgggtca gctgcgtcta 180

ccacaatgag catacatgta tggtaaactt tctgtgaaag catcgntgaa taaggtngtt 240

tcgtntt 247

<210> 455

<211> 185

<212> DNA

<213> Zea mays

<400> 455

gttttggttaa gcagccaagc caggctatta gtacgaagaa tgtcgtctat aaacatgtgt 60

tcctacgttg ccacatgctg agtcaatctg tatacagcta gctctagggtg gtcagctgcg 120

tctaccacaa tgagcataca tgtatggata aatcttctgt gaaagcattc gatgaataag 180

ggttg 185



<210> 456  
 <211> 148  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 456  
  
 gtcgtctata aacatgtgtn cctacgttgc cacatgctga gtcaatctgt atacagctag 60  
 ctctaggtgg tcagctgcgt ctaccacaat gagcatacat gtatggataa atcttctgtg 120  
 aaagcattcg atgaataagg gttgtttt 148

<210> 457  
 <211> 109  
 <212> DNA  
 <213> Zea mays  
  
 <400> 457  
  
 ctgtatacag ctagctctag gtggtcagct gcgtctacca caatgagcat acatgtatgg 60  
 ataaatcttc tgtgaaagca ttcgatgaat aagggttggt ttcgtgatt 109

<210> 458  
 <211> 249  
 <212> DNA  
 <213> Zea mays  
  
 <400> 458  
  
 cttcgggcct gcagcctcca ccatccacgt gacacccgag gaaggtttca gctacgcaag 60  
 ctacgaagct atgaacttcg accccagctc actgggtctac agcgatgtga tcaggagggt 120  
 cctggcaggc ttctctcctt cggacttctc ggtcgcagtt accatctttg gtggccgtgg 180  
 gttcgccaaa tcatgggcga cgggtgcaga catcgattcc tacatgtgcg gtgatcctgt 240  
 agagcaaga 249

<210> 459  
 <211> 338  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 459

cgaantatga acttcgaccc cagctcactg gtctacagcg atgtgatcag gagggtcctg 60  
 gcaggcttct ctccttcgga cttctcggtc gcagttacca tctttggtgg ccgtgggggtt 120  
 cgccaaatca tgggcgacgg gtgcagacat cgattcctac atgtgcggtg atcctgtaga 180  
 gcaagagctt cctggtggcg gtctgctgat gtaccagagc tttactgctg ttccctctgg 240  
 ctctgtatcg ccgaggtcga ccttgagac ggatggctgg agcagcgatg gaatggagat 300  
 ggctctcaat gacgagatgt gtattggctg ctggaatg 338

<210> 460  
 <211> 165  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 460

cggnccttctc ggtcgcagtt accatctttg gtggccgtgg gttcgccaaa tcatgggcga 60  
 cgggtgcaga catcgattcc tacatgtgcg gtgatcctgt agagcaagag cttcctggtg 120  
 gcggtctgct gatgtaccag agctttactg ctgttccctc tggct 165

<210> 461  
 <211> 293  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 461

agccgcccta cctattcctt ctcccagccg tcgagctgcc caaccagag caccagcagc 60  
 cctcaccttc ttcctctcgg ccggtccttc aaacgagccc gctcgtcttg gagccgccgc 120  
 cgggtctcgtt ctggacgaac gttcaaggag attgcatttg tggatgctct aatggagtcg 180  
 aaaggtggca agaagtcnnn nnnnnnnnnn nnnnnnttca tgtacgaagc tccccttggc 240  
 tacaagatcg aggacgttcg cccagccgga ngaatcaaga agttccagac tgc 293

<210> 462  
 <211> 289  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<400> 462

gacctattcc ttctcccagc cgtcgagctg cccaacccag agcaccagca gccctacacc 60

ttcttctctt acggccggtc cttcaaacga gcccgctcgt acttgagacc gccgccggtta 120

ctcgttcttg acgaacgttc aaggagattg catttggtga tgctctaata gagtcgaaag 180

gtggcaagaa gtcnnnnnnn nnnnnnnnnn nnttcatgta cgaagctccc cttggctaca 240

agatcgagga cgttcgccc gccggagaat caagcagttc cgactgatg 289

<210> 463

<211> 264

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 463

attccttctc ccagccgtcg agctgcccac cccagagcac cagcagccct caccttcttc 60

ctctcgcccg gtccttcaaa cgagcccgtc cgtcttgag ccgccgccgg tctcgttctg 120

gacgaacgtt caaggagatt gcatttggtg atgctctaata ggagtcgaaa ggtggcaaga 180

agtcnnnnnn nnnnnnnnnn nnttcatgt acgaagctcc cttggctac aagatcgagg 240

acgttcgccc agccggagga atca 264

<210> 464

<211> 571

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 464

gnnatagtat aangaaaggn gnagnatntn ntatacnngt ccggaattcc cgggtcgacc 60

cacgcgtccg gtccggtggc aatgcttatg tgattggtga ctctgcgaag cccgggcaga 120

agtggcacgt ntactacgcc gctgagcacc ctgaggagcc tgctgttact ctggagatgt 180

gcatgactgg gctggacaag aagaaagctt ctgtcttctt caagaccact gctgatgggt 240

actcgctgtg cgccaaggag atgaccaagc tctctggtat ctcgacatc atcccagaga 300

tggagatctg tgacttcgac ttcgagccct gtggctactc catgaatgct gttcatggcc 360

ctgctttgtc gaccattcat gtgaccccag aggacggctt cagctatgca agctacgagg 420

tcatgggctt naacccgggc tctttctctt atgngacct ggttaaaaag ggtctnaagt 480  
nctttgggtca actgaattct ntgggtgccgt gaccatnttn gngaannnga caaatgcnaa 540  
aaccttgggg accaaactgg attcttaagg c 571

<210> 465  
<211> 522  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 465

agagggctcg nngtngana gngnnnnnag gnantttttg naattccgaa ttcccgggtn 60  
gaccacgcg tccgctnatg tcttatctga gtcgagcctg tttgtctacc cgtacaagat 120  
tgtgatcaag nggtgtggaa gtacaaagct tctgctcgct attccgagga tccttgaact 180  
tgctgaagag ctctgtttgc cactcgctgc agttaatac tcccggtgaa cgttcatatt 240  
ccctgaagca caaccttccc cacacaagaa ctctcgctgac gaggttgctt tcctgaatcg 300  
cttcttcggg ggctcaagt ccggtggcaa tgcttatgtg attggtgact ctgcgaagcc 360  
cgggcagaag tggcacgtct actacgccgc tgagcaccct gaggagcctg ttgttactct 420  
agagatgtgc atgactgggc tggacaagaa gaaagcttct gtcttcttca agaccactgc 480  
tgatggttac tcgctgtgcg ccaaggagat gaccaactct ct 522

<210> 466  
<211> 515  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 466

gagnttgntt cnacgnaggg gggatntaac ggaaangctt gtaccggtcc ggaattcccg 60  
ggtcgaccca cgcgtccgat tccctgaagc acagccttcc ccacacaaga acttcgctga 120  
cgagggttgc tncctgaatc gcttcttcgg tggcctcaag tccggtggca atgcttatgt 180  
gattggtgac tctgcgaagc ccgggcagaa gtggcacgtc tactacgccg ctgagcacc 240  
tgaggagcct gttgttactc tagagatgtg catgactggg ctggacaaga agaaagcttc 300  
tgtcttcttc aagaccactg ctgatgggta ctcgctgtgc gccaaaggaga tgaccaagct 360

ctctggtatc tccgacatca tcccagagat ggagatctgt gacttcgact tccagccctg 420  
 tggctactcc atgaatgctg gtcattggcct gcttggcgac cattcatgtg accccaanag 480  
 gacggttttag ctttgcaagc tacnaggcat ggctt 515

<210> 467  
 <211> 531  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 467

gngagggntn tgtntggggg ggggnaggaa anttgtnncc tccggaattc ccgggtcgac 60  
 ccangcgtcc ggtcttcctc ccgtggcctg tctgtcatct ggctctgaaa cgatggcagt 120  
 cctgcaagtt gctgctggtg cccctcccc tgtctctgtg attgggttcg agggatttga 180  
 gaagcgcctt gagatcagct tctctgaggc acctgtcttg gctgacccca gcggaagggg 240  
 actgctgctg ctctcgcgtg cccagatcga ctctgttctt gaccttgctc ggtgcaccat 300  
 tgtgtccgag ctctcaaagc aggacttcga ctcttatgtc ttatctgagt cgagcctgtt 360  
 tgtctacca tacaagattg tgatcaagac ctgtggaact acaaagcttc tgctcgctat 420  
 tccgaggatc cttgaacttg ctgaagagct cctgttgcca ctgctgcaa gttaaatact 480  
 cccgtggaac gttcatattc cctgaagcac aaccttccca cacaagaact t 531

<210> 468  
 <211> 463  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 468

caaagaccac ttcccgtctt cctccngtgg nctgtctgtc atctggctct gaaacgatgg 60  
 cagtcttgca agttgctgct gctgcccctc cccctgtctc tgtgattggg ttcgagggat 120  
 ttgagaagcg ccttgagatc agcttctctg aggcacctgt cttggctgac cccagcggaa 180  
 ggggactgctg tgcgtctctg cgtgcccaga tcgactctgt tcttgacctt gctcggtgca 240  
 ccattgtgtc cgagctctna aacgaggact tcgactctta tgtcttatct gactcgagcc 300  
 tgtttgtcta ccatacaag atttgtatca agacctgtgg aactacaaag cttctgctcg 360

ctattcccga ggatccttga acttgctgaa gagctcctgt tgccactcgc tgcagttaaa 420  
tacttccgtg gaacgggtcat attcctgaac acaagccttc cca 463

<210> 469  
<211> 474  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 469

ggnnnnnnng naaactttat ccgncagnta ccggtcaaag aantcccggg tcgacccacc 60  
gtccgcccac gcgtccgccc acgcgtccgc tgatggttac tcgctgtgcg ccaaggagtg 120  
accaagctct ctggtatctc ggacatcatc ccagagatgg agatctgtga cttcgactcg 180  
agccctgtgg ctactccatg aatgctgttc atggccctgc tttgtcgacc attcattgac 240  
cccagaggac ggcttcagct atgcaagcta cgaggatcatg ggctttaacc cgggcctttc 300  
tcttatggtg acctgggttaa gaggggtgctg aggtgctttg gtccaactga gtttctgttg 360  
ccgtgaccat cttcgggtgat cgggacaatg cgaagacctg ggggacgaaa ctgatgctga 420  
ggcctatgct tgcaagcaac atggttgagc aagtgtgcc gtttggtggc ttcc 474

<210> 470  
<211> 304  
<212> DNA  
<213> Zea mays

<400> 470

ctgtcttctt caagaccact gctgatggtt actcgctgtg cgccaaggag atgaccaagc 60  
tctctggtat ctcgacatc atcccagaga tggagatctg tgacttcgac ttcgagccct 120  
gtggctactc catgaatgct gttcatggcc ctgctttgtc gaccattcat gtgaccccag 180  
aggacggcct cagctatgca agctacgagg tcatgggctt taaccgggc tctttctctt 240  
atggtgacct ggttaagagg gtgctgaggt gctttggtcc aactgagttc tctgttgccg 300  
tgac 304

<210> 471  
<211> 450  
<212> DNA  
<213> Zea mays

<223>        unsure at all n locations  
<400>        471

```
ctgtgacttc gacttcgagc cctgtggcta ctccatgaat gctgttcatt gccctgcttt   60
gtcgaccatt catgtgaccc cagaggacgg cttcagctat gcaagctacg aggtcatggg   120
cttcaaccgg ggctctttct cttatgggta cctgggtaag aggggtgctga ggtgctttgg   180
tccaactgag ttctctgttg ccgtgaccat cttcggtgat cgggacaatg cgaagacctg   240
ggggacgaaa ctggatgctg aggcctatgc ttgcagcaac atggttgagc aggtgctgcc   300
gtttggtggc ttgctcatct atcagaagct tnactgttac gggccgaaac gaacccatgg   360
gtcgccgaag gtcaagtcct gcatgaactt cgctggtgac attgtcaaga aatngnttaa   420
aagagtgatg ctccctggga agctgatctg                                     450
```

<210>        472  
<211>        302  
<212>        DNA  
<213>        Zea mays

<223>        unsure at all n locations  
<400>        472

```
gtcttggttg accccagcng aaggggactg cgtgcgctct cgcgtgccca gatcgactct   60
gttcttgacc ttgctcgggt caccattgtg tccgagctct caaacgagga cttcgactct   120
tatgtcttat ctgagtcgag cctgtttgtc taccataca agattgtgat caagacctgt   180
ggaactacaa agcttctgct cgctattccg aggatccttg aacttgctga agagctcctg   240
ttgccactcg ctgcagttan atactcccgt ggaacgttca tattccctga agcacagcct   300
tc                                                                    302
```

<210>        473  
<211>        489  
<212>        DNA  
<213>        Zea mays

<223>        unsure at all n locations  
<400>        473

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gggnnnnnnaa nttatccgnc aggcaccggt caagaattcc cgggncgacc cacgcgtccg   60
cggacgcgtg gggatctgtg acttcgactt cgagccctgt ggctactcca tgaatgcttt   120
```

catggccctg ctttgtcgac cattcatgtg accccagagg acggcttcag ctatgcagct 180  
acgaggtcat gggcttcaac ccgggtcttt tctcttatgg tgacctggtt aagaggtgct 240  
gaggtgcttt ggtccaactg agttctctgt caccgtgacc atcttcggtg atcggacaat 300  
gcgaagacct gggggacgaa actggatgct gaggcctatg cttgcagcaa catgttgagc 360  
aggtgctgcc gtttggtggc ttgctcatct atcaaaagct tcaactgttaa cggcgaaacg 420  
aaccaagggt ccccgangtc aagtcctgca tgaacttccc cnggtgacaa tttcaanaat 480  
ccncncaaa 489

<210> 474

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 474

aaagatatca aagaccactt cccgtcttcc tcccgtggct gtctgtcatc tggtcttgaa 60  
acgatggcag tcctgcaagt tgctgctgct gccctcccc ctgtctctgt gattgggttc 120  
gagggatttg agaagcgctt tgagatcagc ttctctgagg cacctgtctt ggctgacccc 180  
agcgggaagg gactgctgct gctctcgct gccagatcg actctgttct tgaccttgct 240  
cgggtgcacca ttgtgtccga gctctcaaac gaggacttcg actcttatgt cttatctgag 300  
tcgagcctgt ttgtctaccc atacaagatt gtgatcaaga cctgtggaac tacaagctt 360  
ctgctcgcta ttccgaggat cttgaacttg ctgaaaaact cctggtgcca ctgctgcaa 420  
gttaaatact nccgtggaac gttcat 446

<210> 475

<211> 294

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 475

tcgggtgcacc attgtgtccg agctctcaaa cgaggacttc gactcttatg tcttatctga 60  
gtcgagcctg tttgtctacc catacaagat tgtgatcaag acctgtggaa cnacaaagct 120  
tctgctcgct attccgagga tccttgaact tgctgaagag ctctgttgc cactcgctgc 180



agttaaatac tcccgtggaa cgttcatatt ccctgaagca cagccttccc cacacaagaa 240  
 ctctgctgac gaggttgcct tcctgaatcg cttcttcggt ggcctcaagt ccgg 294

<210> 476  
 <211> 314  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 476

ctctagagat gtgcatgact gggctggaca agaagaaagc ttctgtcttc ttcaagacca 60  
 ntgcngatgg ttannnnngnn gtgcgcnaag gngatgacca agctctcttg tatctcggac 120  
 atcatcccag agatggagat ctgtgacttc gacttcgagc cctgtggcta ctccatgaat 180  
 gctgttcatg gccctgcttt gtcgaccatt catgtgaccc cagaggacgg cttcagctat 240  
 gcaagctacg aggtcatggg ctttaacccg ggctctttct cttatggtga ctggttaaga 300  
 ggggtgctgag gtgt 314

<210> 477  
 <211> 309  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 477

cgcatgcacg cgtacgtaag ctcggaattc ggctcgaggg tcagccaaga caggtgcccc 60  
 gatcgactct gttcttgacc ttgctcgggtg caccattgtg tccgagctct caaatgacga 120  
 ctttgactct tatgtcttat ctgagtcgag cctgtttgtc taccgtaca agattgtgat 180  
 caagacctgt ggaactacaa agcttctgct cgctattccg agnatccttg aacttgctga 240  
 agagctcctg ttgccactcg ctgcagttaa atactcccgt ggaacgttca tattccctga 300  
 agcacaacc 309

<210> 478  
 <211> 245  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 478

ctgggctgga caagaagaaa gcttctgtct tcntcaagac cactgctgat gggtactcgc 60  
 tgtgcgccaa ggagatgacc aagctctctg gtatctcgga catcatccca gagatggaga 120  
 tctgtgactt cgacttcgag ccctgtggct actccatgaa tgctgttcat ggccctgctt 180  
 tgtcgaccat tcatgtgacc ccagaggacg gcttcagcta tgcaagctac gaggtcatgg 240  
 gcttt 245

<210> 479

<211> 592

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 479

tnnaatnatt tngnntgagt gtatatgnng tgtngagana ttnaaaccn cnngaattcc 60  
 cgggtcgacc cacgctccg gtcaggcgnc aatgctnatg tgattgggga ntctgcnaag 120  
 cccggtcaga agtggcacgt gtactaggcc gctnagcacc ntgaggagcc tgctggttact 180  
 ctggagatgt gcatgactgg gctggacaag aagaaaagctt ctgtattgtt caagaccact 240  
 gctgatgggtt actngctgtg cgccaaggag atgaccaagc tctctggtat ntnggacatc 300  
 attccagaga tggagatctg tgacttcnac ttngagccct gtgggctact nnatgaatgc 360  
 tgttcatggc cctgnttttg tcgaccattc atgtgacccc aaaaggacgg nttttaactn 420  
 ntgcaagcta cgaggttatg ggctttaaac ccnggncttt tttnnnatgg gggacctnng 480  
 taaaaagggg tgctgaagtt ncttttggtc caactgaatt nntntgttgn ctgagacnat 540  
 ttnnngtgat cgggacnant tcgantaact tnggggnchna aaacttagtg nt 592

<210> 480

<211> 260

<212> DNA

<213> Zea mays

<400> 480

ccactcgtg cagttaaata ctcccgtaga acgttcatat tccctgaagc acagccttcc 60  
 ccacacaaga acttcgctga cgagggtgcc ttctgaatc gcttcttcgg tggcctcaag 120  
 tccggtggca atgcttatgt gattggtgac tctgcgaacc cgggcagaag tggcacgtct 180

actacgccgc tgagcaccct gaggagcctg ttgttactct agagatgtgc atgactgggc 240  
 tggacaagaa gaaagcttct 260

<210> 481  
 <211> 249  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 481

ttccctgaag cacagccttc cccacacaag aacttcgctg acgaggttgc nttcctgaat 60  
 cgcttcttcg gtggcctcaa gtccggtggc aatgcttatg tgattggtga ctctgcgaac 120  
 ccgggcagaa gtggcacgtc tactacgccg ctgagcaccg tgaggagcct gttgttactc 180  
 tagagatgtg catgactggg ctggacaaga agaaagcttc tgtcttcttc aagaccactg 240  
 ctgatgggtt 249

<210> 482  
 <211> 258  
 <212> DNA  
 <213> Zea mays

<400> 482

gagatctgtg acttcgactt cgagccctgt ggctactcca tgaatgctgt tcatggccct 60  
 gctttgtcga ccattcatgt gaccccagag gacggcttca gctatgcaag ctacgaggtc 120  
 atgggcttta acccgggctc tttctcttat ggtgacctgg ttaagagggg gctgaggtgc 180  
 tttggtccaa ctgagttctc tgttgccgtg accatcttcg gtgatcggga caatgcgaag 240  
 acctggggga cgaaactg 258

<210> 483  
 <211> 198  
 <212> DNA  
 <213> Zea mays

<400> 483

gctgtgcgcc aaggagatga ccaagctctc tggtatctcg gacatcatcc cagagatgga 60  
 gatctgtgac ttgacttcg agccctgtgg ctactccatg aatgctgttc atggccctgc 120  
 tttgtcgacc attcatgtga cccagagga cggcttcagc tatgcaagct acgaggtcat 180

gggcttcaac ccgggctc

198

<210> 484  
<211> 246  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 484

ttcatgtgac cccagaggac ggcttcagct atgcaagcta cgaggatcatg ggctttancc 60  
cgggctcttt ctcttatggt gacctgggta agaggggtgct gaggtgcttt ggtccaactg 120  
agttctctgt tgccgtgacc atcttcgggtg atcgggacaa tgcgaagacc tggggggacga 180  
aactggatgc tgaggcctat gcttgcagca acatggttga gcagggtgctg ccgtttgng 240  
gcttgc 246

<210> 485  
<211> 302  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 485

ctaccatac aagattgtga tcaagaccng tggaacnaca aagcttctgc tcgctatncc 60  
gaggatcctt gaacttgctg aagagctcct gtngccacna cgctgcagtn aaatacnccc 120  
cgtggaacgt tcatattccc tgaagcacag ccttccccac acaagaactt cgctgacgag 180  
gttgcccttc tgaatcgctt ctctcgnggc ctcaagtcg gnggcaatgc ttatgtgatt 240  
ggngacnctg cgaacccggg cagaagtngc agtctanacg ccgctgagca cnctgaggag 300  
cc 302

<210> 486  
<211> 524  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 486

gngggggng caattctnct nttcgtgccg tccattaatc aagggnccnc ccacgcgtcc 60

gaanccctga aagcacagcc ttccccacac aagaacttcg ctgacgaggt tgccttcctg 120  
 aatccgcttc ttcggtggcc tcaagtccgg tggcantgct tatgtgattg gtgactctgc 180  
 gaagcccggg cagaagtggc acgtctacta cgccgctgaa gcaccctgag gagcctgttg 240  
 ttactctaag agatgtgcat gactgggctg gacaagaaga aagcttctgt cttcttcaag 300  
 accaactgct gatggttact cgctgggtgcg ccaaggagat gaccaaagct ctctgggtatc 360  
 tcgggacatc atcccaagag atggagatct gtgactcgac ttcgaagccc tgtggctact 420  
 ccatgaatgc tgttcaatgg ccctgctttt gtcgaancat tcatgtganc ccaagaggga 480  
 cggctttcag ctattccaag cttacnaagg tcatgggctt taac 524

<210> 487

<211> 178

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 487

aagctctctg gtatctcgga catcatccca gagatggaga tctgtgactt cgacttcnag 60  
 ccctgtggct actccatgaa tgctgttcat ggccctgatt tgctgaccat tcatgtgacc 120  
 ccagaggang gcttcagcta tgcaagcnac gaggtcatgg gctttaacnn gggctctt 178

<210> 488

<211> 238

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 488

cttcagctat gcaagctacg aggtcatggg ctttaacccg ggctctttct cttatgggtga 60  
 cctgggttaag aggggtgctga ggtgcttttg tccaactgag ttctctgttg ccgtgaccat 120  
 cttcggtgat cgggacaatg cgaagacctg ggggacgaaa ctggatgctg aggcctatgc 180  
 ttgcagcaaa atgggttaaac agttctgccg ttgggggntt cccacannaa aanaactt 238

<210> 489

<211> 304

<212> DNA

<213> Zea mays

<400> 489

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agaaaccacc tgcattttca ttttgatctc cctaatacct ccggctagct gctttccagt 60
gacaaaaaga tatcaaagac cacttcccgt cttcctcccg tggctgtctg tcatctggct 120
ctgaaacgat ggcagtcctg caagttgctg ctgctgcccc tccccctgtc tctgtgattg 180
ggttcgaggg atttgagaag cgccttgaga tcagcttctc tgaggcacct gtcttggctg 240
accccgagcg aaggggactg cgtgcgctct cgcgtgccca gatcgactct gttcttgacc 300
ttgc 304
```

<210> 490

<211> 229

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 490

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gaagacggga agtggctctt gatatctttt ggtcactgga acgatggcag tcctgcaagt 60
tgctgtgtgt gccctcccc ctgtctctgt gattgggttc gagggatttg agaagcgctt 120
tgagatcagc ttctctgagg cacctgtctt ggctgacccc agcggaaggg gactgcgtgc 180
gctctcgctg gccagatcg actctgttct tnaactgtct ggtgcacca 229
```

<210> 491

<211> 290

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 491

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gctgaggtgc tttggtccaa ctgagttctc tgttgccgtg accatcttcg gtgatcggga 60
caatgcgaag acctggggga cganaactgg atgctgaggc ctatgcttgc agcaacatgg 120
ttgagcaggt gctgccgttt ggtggcttgc tcatttatca gagcttcact gttacggccg 180
aaacgaccca tgggtcgccg aggtcagtc tgcattgact cgctgggtgac attgtcaaga 240
atcgctcaga gagtgatgct ccctgggaag ctgatgctgt ggatgcggng 290
```

<210> 492

<211> 289

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 492

tgactcttat gtcttatctg agtcgagcct gtttgtctac ccgtacaaga ttgtgatcaa 60

gacctgtgga actacaaagc tatctgctcg ctattccgag gatccttgaa cttggctgaa 120

gagctcctgt tgccactcgc tgcagttaaa tactcccgctg gaacgttcat attccctgaa 180

gcacaacctt cccaacaca agaacttcgc tgacgagggt tgccntnctg aatcgcntct 240

cggtgggctc aangtcggtg ggaaaagctan tgtgattgtn anncngcga 289

<210> 493

<211> 318

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 493

gctgaggtgc tttggtccaa ctgagttctc tgttgccgtg accatcttcg gtgatcgga 60

caatgcgaag acctggggga cgaaactgga tgctgaggnc tatgcttgca gcaanctggt 120

tgagcaggtg ctgccgtttg gtggcttgct catctatcag agcttcactg ttacggccga 180

aacgacccat gggtcgccga ggtcagtcct gcatgacttc gctggtgaca ttgtcaagaa 240

tcgctcagag agtgatgctc cctgggaagc tgatgctgtg gatgagagcg aggaaagaga 300

tgtaaagaag atgnaatg 318

<210> 494

<211> 310

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 494

gtcgtcatcc ccatactagt agcgtagaaa ccacctgcat tttcattttg atctcnctaa 60

tacctccggg tagctgcttt ccagtgacca aaagatatca aagaccactt cccgtcttcc 120

tcccgtggct gtctgtcatc tggctctgaa acgatggcag tcctgcaa at tgctgctgct 180

gcccctcccc ctgtctctgt gattgggttc gagggatttg agaagcgcct tgagatcagc 240

ttctctgagg cactgtcttg ggctgacccc agcgggaagg actgcgtgcg ctctcgcgtg 300

cccagatcga 310

<210> 495  
 <211> 137  
 <212> DNA  
 <213> Zea mays

<400> 495

atgggcttca acccgggctc tttctcttat ggtgacctgg ttaagagggg gctgaggtgc 60  
 tttggtccaa ctgagttctc tgtcaccgtg accatcttcg gtgatcggga caatgcgaag 120  
 acctggggga cgaaact 137

<210> 496  
 <211> 111  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 496

gctgaggtnc tttggtccaa ctgagttctc tgttgccgtg caccatcttc ggtnatcggg 60  
 acaatgcgaa gacctggggg acnnaactgg atgctgaggc ctatncttag c 111

<210> 497  
 <211> 302  
 <212> DNA  
 <213> Zea mays

<400> 497

gtgggcggtt aggggttgga gatctcttga ctcacgacac gagcagcaga attcgtcgag 60  
 ggccgctggg tgctgcgaga ggtccggggc ttcgtgggat cttgaaaatt gaatgttcta 120  
 atggagtcca aggggtggca gaagaagtct agcagtagtc gttcctccct gatgtacgaa 180  
 gctccccttg gctacagcat cgaggatatc cgccctgcag gcggcatcaa gaagttctcc 240  
 gctgcttact cgaactgcgc gaggaagcca tcctgatatc tctgtcgtca tccccatcct 300  
 ag 302

<210> 498  
 <211> 501  
 <212> DNA



<213> Zea mays

<223> unsure at all n locations

<400> 498

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ttnacgcttt ccacgtgccc aggcangaat taacgggtcg anccacgcgt cngatttcnc 60
tagcaccgaa gagaaatata tgccgcccgc tcctcctcat tcggtgaaag gtgggcggtt 120
agggttggga agatctcttg actcacgaca cgagcagcag aattcgtcga gggccgctgg 180
ttgctgagag aggtccgggc ctctgtggga tcttgaaaat tgaatgttct aatggagtcc 240
aagggtggca agaagaagtc tagcagtagt cgttcctccc tgatgtacga agctcccctt 300
ggctacagca tcgaggatat ccgccctgca ggccgcatca agaagttctc cgctgcttac 360
tcnaactgcn cgaggaagcc atcctgatat ctctgtcgtc atccccatcc taatagccgt 420
naaaaccanc tggaatttca atttgatctn cccaaaatcc ctcgggtnnc cggctttcca 480
gtgaccanag ngatatcaaa g 501
```

<210> 499

<211> 284

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 499

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ctcgaactgc gcgaggaagc catcctgata tctctgtcgt catccccatc ctagtagcgt 60
agaaaccncc tgcattttca ttttgatctc cctaattctc ccggctagct gctttccagt 120
gaccaaaga tatcagagac cacctcccgt ggctgtctgc catctggctc tgaaacgatg 180
gcagtcctac aagctgctgc cctccccct gtctctgtga ttggattcga gggatttgag 240
aagcgcttg agatcagctt ctctgaggca cctgtcttgg ctga 284
```

<210> 500

<211> 166

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 500

```
caagaagaag tctagcagta gtcgttcctc cctgatgtac gaagctcccc ttggctacag 60
catcgaggat atccgccctg caggcggcat caagaagttc tccgctgctt acncgaacng 120
```

cgcgaggaag ccacccctgat atctctgtcg tcaccccat cctagt

166

<210> 501  
<211> 440  
<212> DNA  
<213> Zea mays

<400> 501

gagatctctt gcctcacgac acgagcagca gaatttgtcg agggccggtg gttgctgcga 60  
gaggtccggg ccttcgtggg atcttgaaaa ttgaatgttc taatggagtc caaggggtggc 120  
aagaagaagt ctagcagtag tcgttcctcc ctgatgtacg aagctccctt tggctacagc 180  
atcgaggata tccgcctgca ggcggcatca agaagttctc cgctgottac tcgaactgcg 240  
cgaggaagcc atcctgatat ctctgttgtc atcccatcc taatagccgt agaaaccacc 300  
tgcattttca ttttgatctc ctaatccctt cggctagctg cttttcaagt gaccaaaga 360  
tatcaaaaga ccactttccc gtctttcttc ccgtggcctg tctgcatctt ggctctgaaa 420  
cgatggcagt cctgcaaggt 440

<210> 502  
<211> 300  
<212> DNA  
<213> Zea mays

<400> 502

gaagaagtct agcagtagtc gttcctccct gatgtacgaa gctccccttg gctacagcat 60  
cgaggatata cgccctgcag gcggcatcaa gaagttctcc gctgcttact cgaactgcgc 120  
gaggaaagcca tcctgatata tctgtcgtca tccccatcct agtagcgtag aaacctctg 180  
cattttcatt ttgatctccc taatctctcc ggctagctgc tttccagtga ccaaagata 240  
tcagagacca cctcccgtag ctgtctgcca tctggctctg aaacgatggc agtcctacaa 300

<210> 503  
<211> 283  
<212> DNA  
<213> Zea mays

<400> 503

ccccatccta gtacgtaga aacctctgc attttcattt tgatctccct aatctctccg 60

gctagctgct ttccagtac caaaagatat cagagaccac ctcccgtggc tgtctgccat 120  
 ctggctctga aacgatggca gtcctacaag ctgctgcccc tccccctgtc tctgtgattg 180  
 gattcgaggg atttgagaag cgccttgaga tcagcttctc tgaggcacct gtcttggtg 240  
 accccagcgg aaggggactg cgtgcgctct cgcgtgcca gat 283

<210> 504  
 <211> 300  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 504

cgatctcttc ggtgctagag aaatataggc cgccgcctcc tcctcattcg gtgaaaggtg 60  
 ggcggttagg gttgggagat ctcttgactc acgacacgag cagcagaatt cgtcgagggc 120  
 cgctggttgc tgcgagangt ccgggccttc gtgggatctt gaaaattgaa tgttctaattg 180  
 gagtccaagg gtggcaagaa gaagtctagc agtagtcgtt cctccctgat gtacgaagct 240  
 ccccttggtc acagcatcga ggatatccgc cctgcangcg gcatcaagaa gttctccgct 300

<210> 505  
 <211> 313  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 505

atcgattccc cccgcatctg atctcttcgg tgctagagaa atataggccg ccgccgcctc 60  
 ctctttgttc ggtgaaaggt gggcagttag ggttgggaga tctcttgact cacgacacga 120  
 gcagcagaat tcgtcgaggg ccgctggttg ctgcgagang tccgggcctt cgtgggatct 180  
 tgaaaattga atgttctaatt ggagtccaag ggtggcaaga agaagtctag cagtagtcgt 240  
 tcctccctga tgtacgaagc tccccttggc tacagcatcg aggatatccg ccctgcaggc 300  
 ggcatcaaga att 313

<210> 506  
 <211> 283  
 <212> DNA  
 <213> Zea mays

<223>        unsure at all n locations  
 <400>        506

```

agatntcntc ggtgctagag aaatataggc cgccgcctcc tcctcattcg gtgaaaggtg   60
ggcgggtagg gntgggagat ctctgactc acgacacgag cagcagaatt cgtcgagggc  120
cgctgggttg tgcgagangt ccgggccttc gtgggatctt gaaaattgaa tgttctaatt  180
gagtccaagg gtggcaagaa gaagtctagc agtagtcggt cctccctgat gtacgaagct  240
ccccttggct acagcatcga ggatatecgc cctgcaggcg gca                      283
  
```

<210>        507  
 <211>        304  
 <212>        DNA  
 <213>        Zea mays

<223>        unsure at all n locations  
 <400>        507

```

gaaatcgatt ccccgcatc cgatctcttc ggtgctagag aaatataggc cgccgcctcc   60
tcctcattcg gtgaaaggng ggcggtagg gttgggagat ctcttgactc acgacacgag  120
cagcagaatt cgtcgagggc cgctgggttg tgcgagaggt ccgggccttc gtgggatctt  180
gaaaattgaa tgttctaatt gagtccaagg gtggcaagaa gaagtctagc agtagtcggt  240
cctccctgat gtacgaagct ccccttggct acagcatcga ggatatccgc cctgcaggcg  300
gcat                                                                304
  
```

<210>        508  
 <211>        439  
 <212>        DNA  
 <213>        Zea mays

<223>        unsure at all n locations  
 <400>        508

```

gaaatcgatt ccccgagcat ctgatctctt cggtgctaga gaaatatagg ccgccgccgc   60
ctcctcctca ttcggtgaaa ggtgcgcagt taggggtggg agatctcttg cctcacgaca  120
cgagcagcag aatttgctga gggccgctgg ttgctgcgag aggtccgggc cttcgtggga  180
tcttgaaaat tgaatgttct aatggagtcc aagggtgga agaagaagtc tagcagtagt  240
cgttcctccc tgatgtacga agtccccctt ggctacagca tcgaggatat ccgcctgcag  300
  
```

gcggcatcaa gaagttctcc gctgcttact cgaactgcg gaggaacca tntgatatc 360  
tctggtgnca ttccattct aatagccgta gaaaccacct gnattttcaa tttgaacttc 420  
ccttttaaaa atccttccg 439

<210> 509  
<211> 453  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 509

cgctggttc gttaggaaag gaaatgggat tccccagca tctgatctct tcggtgctag 60  
agaaatatan gccggcgcgc cctnctactc attcggtgaa aggtgcgcag ttaggggttg 120  
gagatctctt gcctcacgac acgagcagca gaatttgctg agggccgntg gttgctgcga 180  
gaggtccngg ccttcgtggg atcttgaaaa ttgaatgttc taatggagtc caaggggttg 240  
aangaaagaa atctagcagt agtcgttcct tcctgatgta cgaaacttcc nttggctnca 300  
acatcgagga tattcgccct tgaagcgcga ttaaanantt nttnntngt tactnnaant 360  
ttnccangaa accattctta aatnctttgt ngnattccca tcctaatacg ttnnaacan 420  
ctgaatttca attgacttct naaaanctag ggt 453

<210> 510  
<211> 261  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 510

ccgatctctt cggtgctaga gaaatatagg ccgccgcctc ctctcattc ggtnaaaggt 60  
gggcggttag ggttgggaga tctcttgact cagcacacga gcagcagaat tcgtcgaggg 120  
ccgctggttg ctgcgagang tccgggcctt cgtgggatct tgaaaattga atgttcta 180  
ggagtcenag ggtggcaaga agaagtctag cagtagtcgt tcctcctgat gtacgaagct 240  
ccccttggt acagcatcga g 261

<210> 511  
<211> 190  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 511

```
ccgccctgca ggcggcatca agaagttctc cgctgcttac tcgaactgcg cgaggagacc 60
atcctgatat ctctgtcgtc atcccatcc tagtagcgta gaaacctcct gcattttcat 120
tttgatcncc ctaatctctc cggctagctg ctttccagtg accaaaagat atcagagacc 180
acctcccgctg 190
```

<210> 512

<211> 307

<212> DNA

<213> Zea mays

<400> 512

```
cgcggtggttc gttaggaaag gaaatcgatt ccccccgcac ctgatctctt cgggtgctaga 60
gaaatatagg ccgccgccgc ctctccttg ttcggtgaaa ggtgggcagt taggggtggg 120
agatctcttg actcacgaca cgagcagcag aattcgctga gggccgctgg ttgctgcgag 180
aggtccgggc cttcgtggga tcttgaaaat gaatgttcta atggagtcca aggggtggcaa 240
gaagaagtct agcagtagtc gttcctccct gatgtacgaa gctccccttg gctacagcat 300
cgaggat 307
```

<210> 513

<211> 307

<212> DNA

<213> Zea mays

<400> 513

```
gaaatcgatt ccccccgcac ctgatctctt cgggtgctaga gaaatatagg ccgccgccgc 60
ctctccttg ttcggtgaaa ggtgggcagt taggggtggg agatctcttg actcacgaca 120
cgagcagcag aattcgctga gggccgctgg ttgctgcgag aggtccgggc cttcgtggga 180
tcttgaaaat tgaatgttct aatggagtcc aagggtggca agaagaagtc tagcagtagt 240
cgttcctccc tgatgtacga agctcccctt ggctacagca tcgaggatat ccgccctgca 300
gcggcat 307
```

<210> 514  
 <211> 274  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 514  
  
 agaaatcgat tcccccgcat ccgatctctt cgggtgctaga naaatatagg ccgccgcctc 60  
 ctcttgcaatt ncggtgaaag gtgggcggtt aggggttgga gatctcttga ctcacgacac 120  
 gagcagcaga attcgctcgag ggccgntggt tgctgcgaga ggtccggggc ttcgtgggat 180  
 cttgaaaatt gaatgttcta atggagtcca aggggtggcaa gaagaagtct agcagtagtc 240  
 gttcctccct gatgtacgaa gtccccctggc taca 274

<210> 515  
 <211> 290  
 <212> DNA  
 <213> Zea mays  
  
 <400> 515  
  
 aaatcgattc ccccgcatcc gatctcttcg gtgctagaga aatataggcc gccgcctcct 60  
 cctcattcgg tgaaagggtg gcggttaggg ttgggagatc tcttgactca cgacacgagc 120  
 agcagaattc gtcgagggcc gctggttgct gcgagaggtc cgggccttcg tgggatcttg 180  
 aaaattgaat gttctaattg agtccaaggg tggcaagaag aagtctagca gtagtcgttc 240  
 ctccctgatg tacgaagctc cccttggtta cagcatcgag gatatccgcc 290

<210> 516  
 <211> 291  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 516  
  
 gtcgcangca cgcgtacgta agctcggaat tcggctcgag ntcgattccc ccgcatccga 60  
 tctcttcggt gctagagaaa tataggccgc cgcctcctcc tacattacgg tgaaagggtg 120  
 gcggttaggg ttgggagatc tcttgactca cgacacgagc agcagaattc gtcgagggcc 180  
 gctggttgct gcgagaggtc cgggccttcg tgggatcttg aaaattgaat gttctaattg 240  
 agtccaaggg tggcaagaag aagtctagca gtagtcgttc ctccctgatg t 291

<210> 517  
 <211> 305  
 <212> DNA  
 <213> Zea mays

<400> 517

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gtggttcgtt aggaaaggaa atcgattccc ccgcacatctg atctcttcgg tgctagagaa 60
atataggccg ccgccgcctc ctctttgttc ggtgaaagggt gggcagttag ggttgggaga 120
tctcttgact cacgacacga gcagcagaat tcgtcgaggg ccgctggttg ctgcgagagg 180
tccgggcctt cgtgggatct tgaaaattga atgttctaata ggagtccaag ggtggcaaga 240
agaagtctag cagtagtcgt tcctccctga tgtacgaagc tccccttggc tacagcatcg 300
aggat 305
```

<210> 518  
 <211> 297  
 <212> DNA  
 <213> Zea mays

<400> 518

```
atcgattccc ccgcacccga tctcttcggt gctagagaaa tataggccgc cgcctcctcc 60
tcattcggtg aaaggtgggc ggttaggggtt gggagatctc ttgactcacg acacgagcag 120
cagaattcgt cgagggccgc tggttgctgc gagaggtccg ggccttcgtg ggatcttgaa 180
aattgaatgt tctaattggag tccaaggggtg gcaagaagaa gtctagcagt agtcgttcct 240
ccctgatgta cgaagctccc cttggctaca gcatcgagga tatccgccct gcaggcg 297
```

<210> 519  
 <211> 301  
 <212> DNA  
 <213> Zea mays

<400> 519

```
gtggttcgtt aggaaaggaa atcgattccc ccgcacccga tctcttcggt gctagagaaa 60
tataggccgc cgcctcctcc tcattcggtg aaaggtgggc ggttaggggtt gggagatctc 120
ttgactcacg acacgagcag cagaattcgt cgagggccgc tggttgctgc gagaggtccg 180
ggccttcgtg ggatcttgaa aattgaatgt tctaattggag tccaaggggtg gcaagaagaa 240
```



gtctagcagt agtcgttcct ccctgatgta cgaagctccc cttggctaca gcatcgagga 300  
t 301

<210> 520  
<211> 287  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 520

aagгнаatcg atncccccgс atccgatcnc ttcggtgcta gagaaatata ggccgсcgcc 60  
tcncctcat tcggtgaaag gngggcggtt agggttggga gatctcttga ctcacgacac 120  
gagcagcaga attcgtcgag ggccgctggt tgctgсgaga ggtccggggc ttcgtgggat 180  
cttgaaaatt gaatgttcta atggagtcca agggtgгcaа gaagaagtct agcagtagtc 240  
gttcctccct gatgtacgaa gctccccttg gctacagcat cgaggat 287

<210> 521  
<211> 298  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 521

gaaatcgatt cccccgcатc cgatctcttc ggtgctagag aaatataggc cgccgcctcc 60  
tcctcattcg gtgaaaggтg ggcggтtagg gttgggagat ctcttgactc acgacacgag 120  
cagcagaatt cgtcgagggc cgctggttgс tgсgagaggt ccgggccttc gtgggatctt 180  
gaaaattgaa tgttctaатg gagtccaagg gtggcaagaa gaagtctagc agtagtcgтт 240  
cctccctgat gtacgaagct ccccttgгgt acagcatcga ggatatccgc cctgcang 298

<210> 522  
<211> 313  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 522

cgcgтggттc gttaggaaag gaaatcgatt cccncgcat ctgatctctt cggtgctaga 60

gaaatatagg ccgccgccgc ctctccttg ttcggtgaaa ggtgggcagt tagggttggg 120  
 agatctcttg actcacgaca cgagcagcag aattcgtcga gggccgctgg ttgctgcgag 180  
 aggtccgggc cttcgtggga tcttgaaaat tgaatgttct aatggagtcc aagggtggca 240  
 agaagaagtc tagcagtagt cgttcctccc tgatgtacga agctcccctt ggctacagca 300  
 tcgaggatat ccg 313

<210> 523  
 <211> 265  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 523

cgcggtgggttc gttaggaaag gaaatcgatt cccccgcac ctgatctctt cgggtgctaga 60  
 gaaatatang ccgccgccgc ctctccttg ttcggtgaaa ggtgggcagt tagggttggg 120  
 agatctcttg actcacgaca cgagcagcag aattcgtcga gggccgctgg ttgctgcgag 180  
 aggtccgggc cttcgtggga tcttgaaaat tgaatgttct aatggagtcc aagggtggca 240  
 agaagaagtc tagcagtagt cgttc 265

<210> 524  
 <211> 272  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 524

gngtgggttcg ttaggaaagg aaatcgatnc nccccgcac tgatcncntc ggtgctagag 60  
 aaatataggc cgccgccgc nccnccctt gttcggtgaa aggnnggcag ttagggttgg 120  
 gagatcncctt gactcacgac acgagcagca gaattcncgc agggccgctg gttgcngcga 180  
 gaggnccggg cttcgtggg atcttgaaaa ttgaatgtnc taatggagtn caagggtggc 240  
 aagaagaagt ctagcagtag tcgttcctcc ct 272

<210> 525  
 <211> 550  
 <212> DNA  
 <213> Zea mays

<223>        unsure at all n locations  
 <400>        525

```

agttataagn gggggnntagn aaggaacgct ntncgggtcc ggaattcccg ggtcgaccca   60
cgcggtccgca gcattgagga cgttcgacct gccggaggcg tgaagaagtt ccagtctgct   120
gcttactcca actgcgcgaa gaagccatcc tgatatccct tttggcttcc tcattctagt   180
agnttaggat ttcttttctg acactttgat tctgaccaat ctctctggcc tgctgcttcc   240
tgataatcga ccagttcccc agtcttgctc cttgcaactcc tccctccatc tccagcattg   300
tgttctgatt cacctgctcc aatggctggt ctttctgctg ctgatgcttc ccggtctcag   360
ctatcggggtt tgagggctat gagaagcgcc ttgagatcac attctctgag gcacctgtct   420
ttgtggaccc tcatgggccg tggtttgctg gccctctnca gggcccanat tgactctggt   480
ctggatcttg cacggtgcac aattgtgtnc ganctctnca acaaggattt cgactcatat   540
gtcctttctg                                     550

```

<210>        526  
 <211>        537  
 <212>        DNA  
 <213>        Zea mays

<223>        unsure at all n locations  
 <400>        526

```

taatgtgn tn nnttggggn tnggggagga nanngtaant gtttctaccg gtccggaatt   60
cccgggtcga cccacgcgtc cgcaaagctc tctggcatct ctgaaatcat ccccgagatg   120
gagatctgcg attttgactt tgaaccctgt ggctactcca tgaatgcgat ccatggctct   180
gcattctcca caatccatgt gacgcccag gacgggttca gctatgccag ttatgagggt   240
atgggcttgg atgccactgc tctgtcttat ggtgaccttg tcaagagggt ccttcggtgc   300
tttggcccct cggagttttc cgttgccgtg accatcttcg gcgggctggg ccatgccggg   360
acatggggaa aggcaattgg tgcagaggtc tatgactgca acaacatggg ggagcaggag   420
ctgcctggag gcggctcttc gtgtaccaga gtttctgtgc tgctgaagac gctgttgcta   480
cctcgcccaa atctgttttc cactgctttg acggcgagaa cgtggagagt gctcctc     537

```

<210>        527  
 <211>        544  
 <212>        DNA

<213> Zea mays

<223> unsure at all n locations

<400> 527

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atgttnttta ntttttggga tantggtngn ncttctccgg tccggaattc ccgggtcgac 60
nnacgcgtcc gcccacgcgt ccggaagaaa gcttctgtct ttttcaagac taatgctgat 120
gggaacacaa catgtgccaa ggaaatgaca aagctctctg gcatctctga aatcatcccc 180
gagatggaga tctgcgattt tgactttgaa ccctgtggct actccatgaa tgcgatccat 240
ggctctgcat tctccacaat ccatgtgacg cccgaggacg gtttcagcta tgccagttat 300
gaggttatgg gcttggatgc cactgctctg tcttatggtg accttgtcaa gagggtcctt 360
cggtgctttg gcccctcgga gttttccggt gccgtgacca tcttcggcgg gcgtggccat 420
gccgggacat ggggaaaggc acttgggtgca naggtctatg actgcaacaa catgggtggaa 480
cangagctgc ctggaagcgg gctnctcgtg taccaaagct tctgtgctgc tnaaacnctg 540
ntgc 544
```

<210> 528

<211> 539

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 528

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gcnggnttgn nttnggntgg gggnggntaa tgtaacctn tccggaattc ccgggtcgac 60
ccacgcgtcc gcggacgcgt gggcggacgc gtggggactc atatgtcctt tctgagtcaa 120
gcttgtttat ctgtcctctg aagattgtca tcaagacctg tggcactacc aagctcctgc 180
tcaccattcc aagaatcctt gagcttgctg aagagctgtc tatgccactt gctgctgtga 240
agtactcccg tgggacgttc atctttcctg gcgcacagcc agccccccac aggagcttct 300
ctgaggaagt tgctgcactt aaccgctact ttggcggcct gaaatctggt ggtaatgctt 360
atgtgattgg agatccagca agacctggac agaagtggca cgtcttctac gccactgagt 420
accagagca accaatgggt aaccttgaaa tgtgcatgac tggctctggac aagaaagaaa 480
gcttctgnct ttttcaagac taatgctgat gggnacacaa catgtgccaa ggaaatgac 539
```

<210> 529

<211> 472

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 529

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antgttacgt gngccggnng cnggcnga n ttcanggggc gacgcacgcg tccgcaagcc 60
ctgctcacca ttccaagaat ccttgagctt gctgaagagc tgtctatgcc acttgctgtg 120
tgaagtactc ccgtgggacg ttcattcttc ctggcgacac agccagcccc ccacagggct 180
tctctgagga agttgctgca cttaaccgct actttggcgg cctgaaatct ggtggtatgc 240
ttatgtgatt ggagatccag caagacctgg acagaagtgg cacgtcttct acgccctgag 300
taccagagc aaccaatggg taaccttgag atgtgcatga ctggctctgga caagagaaaag 360
cttgtgtctt tttcaagact aatgctgatg ggaacacaac atgtgccaag gaatgacaaa 420
gctctctggc atctctgaaa tcatccccga gatggagatc tgcgattttg ac 472
```

<210> 530

<211> 421

<212> DNA

<213> Zea mays

<400> 530

```
cgaggacggt ttcagctatg ccagttatga ggttatgggc ttggatgcca ctgctctgtc 60
ttatggtgac cttgtcaaga gggtccttcg gtgctttggc ccctcggagt tttccgttgc 120
cgtgaccatc ttcggcgggc gtggccatgc cgggacatgg ggaaaggcac ttggtgcaga 180
ggtctatgac tgcaacaaca tgggtggagca ggagctgcct ggaggcgggc tcctcgtgta 240
ccagagcttc tgtgctgctg aagacgctgt tgctacctcg cccaaatctg ttttccactg 300
ctttgacggc gagaacgtgg agagtgtctc tcctcctatg aagaaggact acaaactggc 360
taatcttcta tgctgggagg aggaagcggg tgccatggag gagaaggcgg gagtgttga 420
t 421
```

<210> 531

<211> 437

<212> DNA

<213> Zea mays

<400> 531

cacatagctt cgtcgatttg aatttgatgt actaatggag tctaagggtg gcaaaaagtc 60  
 tagcagtagt cgttccatga tgtatgaagc tccccttggc tacagcattg aggacgttcg 120  
 acctgccgga ggcgtgaaga agttccagtc tgctgcttac tccaactgcg cgaagaagcc 180  
 atcctgatat cccttttggc ttcttcattc tagtagttta ggatttcttt tctgacactt 240  
 tgattctgac caatctctct ggctgctgc ttctgataa tcgaccagtt cccagtcctt 300  
 gctccttgca ctctctctct catctcagca ttgtgttctg attcacctgc tccaatggct 360  
 ggtctttctg ctgctgatgc ttccccggtc tcagctatcg ggtttgaggg ctatgaaaaa 420  
 gcgccttgag atcacat 437

<210> 532  
 <211> 472  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 532

cttcttttgc ccgccaggta caagtaagga attccccgnt cgaccacgc gtengcaaga 60  
 tccttgagct tgtgaagag ctgtctatgc cacttgctgc tgtgaagtac tcccgtggac 120  
 gttcatcttt cctggcgcac agccagcccc ccacaggagc ttctctgagg aagttgcgca 180  
 ctttaaccgct actttggcgg cctgaaatct ggtggtaatg cttatgtgat tggagaccag 240  
 caagacctgg acagaagtgg cacgtcttct acgccactga gtaccagag caaccatggt 300  
 taaccttgaa atgtgcatga ctggctctgga caagaagaaa gcttccgtcn ttttaaagac 360  
 taatgctgat gggaacacaa catgtgccaa ggaaatgaca aagctctctg gcaactctgaa 420  
 atcatccccg agatggagat ctgcgatttt gactttgaac cctgtggcta cc 472

<210> 533  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 533

cctcgcccaa atctgttttc cactgctttg acggcgagaa cnggagagt gctcctctc 60  
 ctatgaagaa ggactacaag ctggctaata ttctctgctg ggaggaggaa gcggatgcc 120

tggaggagaa ggcgggagtg cttgatgagt aagacgggct tctggggtcg atttgcttct 180  
 gagttgttta ttttatatcg tcgcaatttc gtggttgctg tttggttatt ctgtgaagca 240  
 gccaagccag gctattgtta tgaaaatttg tcgtctgtaa gcatgtgaac ttccgatgtt 300  
 gccacatgct ggatcagtct gaataagtaa gtatgcagct ctaggtgggc agctgctgct 360  
 accacaatga gcatgaacgt atggagaaat atctgtgaac ccattttgnt tatgaataag 420  
 atttgntttt tt 432

<210> 534  
 <211> 501  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 534

cgnggctngt nngngtggga tttnnatgaa ncgtctctac cggtcnggaa ttcccgggtc 60  
 gaccacgcg tccggagcaa ccaatgggta accttgaaat gtgcatgact ggtctggaca 120  
 agaagaaagc ttctggcttt ttcaagacta atgctgatgg gaacacaaca tgtgccaagg 180  
 aaatgacaaa gctctctggc atctctgaaa tcatccccga gatggagatc tgcgattttg 240  
 actttgaacc ctgtggctac tccatgaatg cgatccatgg ctctgcattc tccacaatcc 300  
 atgtgacgcc cgaggacggt ttcagctatg ccagttatga gggttatgggc ttggatgcca 360  
 ctgctctgtc ttatgggtgac cttgtcaaga gggtccttcg gtgctttggc ccctcggagt 420  
 tttccgttgc ccgtgaccat cttcngcggc cgtggccatg ccnggacatg gggaaaggca 480  
 cttggtgcan aggtctatga c 501

<210> 535  
 <211> 477  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 535

ttinnaacn cn acgcggnn cn gaaccggtcn gcngaattcc cgggccgacc cacgcgtcnc 60  
 ggacgcgtgg gctgaaatct ggtggtaatg cttatgtgat tggagatcca gcaagaccgg 120  
 acagaagtgg cacgtcttct acgccactga gtacccagag caaccaatgg ttaacctgag 180

atgtgcatga ctggtctgga caagaagaaa gcttgtgtct ttttcaagac taatgcatg 240  
ggaacacaac atgtgccaaag gaaatgacaa agctctctgg catctctgaa atcatcccga 300  
tatggagatc tgcgattttg acttcgaacc ctgtggctac tccatgaatg cgatcatggc 360  
tctgcattct ccacaatcca tgtgacgccc gaggacggtt tcaagctacg ccattacgan 420  
gttatgggct tggatgccac tgctctgtct tatggtgacc ttgtcaagan ggcctcc 477

<210> 536  
<211> 442  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 536

gcatgactgg tctggacaag aagaaagctt gtgtcttttt caagactaat gctgatggga 60  
acacancatg tgccaaggaa atgacaaagc tctctggcat ctctgaaatc atccccgaga 120  
tgagatctg cgattttgac ttcgaaccct gtggctactc catgaatgcg atccatggct 180  
ctgcattctc cacaatccat gtgacgcccg aggacggtt cagctacgcc agttacgagg 240  
ttatgggctt ggatgccact gctctgtctt atggtgacct tgtcaagagg gtccctccgt 300  
gctttggccc ctcagagttt tccgttgccg tgaccatctt cggcgggctt ggccatgccg 360  
ggacatgggg aaaggcactt ggtgcanaag tctatgactg cacancatgg tggaacanga 420  
acttgcctgg agcggcttct ct 442

<210> 537  
<211> 421  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 537

ctgaatagnt gtctatgcca cttgctgctg tgaaggncn cnntgggacg ttcattcttn 60  
ctggcgacac gccagcccc cacaggagct tctctgagga agttgctgca cttaaccgct 120  
actttggcgg cctgaaatct ggtggtaatg cttatgtgat tggagatcca gcaagacctg 180  
gacagaagtg gcacgtcttc tacgccactg agtaccaga gcaaccaatg gttaaccttg 240  
aaatgtgcat gactggctctg gacaagaaga aagcttctgt ctttttcaag actaatgctg 300



atgggaacac aacatgtgcc aaggaaatga caaagctctc tggcatctct gaaatcatcc 360  
 ccgagatgga gatctgcgat tttgactttg aaccctgtgg ctacttcatg aatgccaan 420  
 c 421

<210> 538  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 538

gtctttttca agactaatgc tgatgggaac acaacatgtg ccaaggaaat gacaaagctc 60  
 tctggcatct ctgaaatcat ccccgagatg gagatctgcg attttgactt tgaaccctgt 120  
 ggctactcca tgaatgcgat ccatggctct gcattctcca caatccatgt gacgcccag 180  
 gacggtttca gctatgccag ttatgaggtt atgggcttgg atgccactgc tctgtcttat 240  
 ggtgaccttg tcaagagggg ccttcggtgc tttggcccct cggagttttc cgttgccgtg 300  
 accatcttcg gcgggcgtgg ccatgccggg acatggggaa aggcacttgg tgcagaggtc 360  
 tatgactgca acaacatggt ggagcangag ctgcctggag gcgggcttct 410

<210> 539  
 <211> 475  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 539

gnggnnnnnn gnttnttagc ngccngcacc aatcaaagan tcgcgggtcg anncacgcgc 60  
 cnetccctcn atctccagca ttgtgttctg attcacctgc tccaatggct gttctttcgc 120  
 tgctgatgct tccccggtct cagctatcgg gtttgagggc tatgagaagc gccttgaatc 180  
 acattctctg aggcacctgt ctttgtggac cctcatgggc gtggtttgcg tgcccttcca 240  
 gggcccagat tgactctggt ctggatcttg cacgggtgcac aattgtgtct gagcttccaa 300  
 caaggatttc gactcatatg tcctttctga gtcaagcttg tttatctatc ctctaagatt 360  
 gtcatcaaga cctgtggcac taccaagctc ctgctcacca ttccaagaat cctgagcttg 420  
 ctgaagaact gtctatgcc cttgctgcgt gaaataatcc cgttgggaac gtcat 475

<210> 540  
 <211> 500  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 540

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ggnnnnnnnn nngttaactt cnacgccggt cggtacanag tcnnggaatt cccgggtcgc 60
ccacgcgtcc gccacgcgt ccgcaaagct ctctggcatc tctgaaatca tccccgagtg 120
gagatctgcg attttgactt cgaaccctgt ggctactcca tgaatgcgat ccatggcctg 180
cattctccac aatccatgtg acgcccgagg acggtttcag ctacgccagt tacgagttat 240
gggcttggat gccactgctc tgtcttatgg tgaccttgtc aagaggggtcc tccggggcttt 300
ggccccctcag agttttccgt tgccgtgacc atcttcggcg ggcgtggcca tgccggacat 360
ggggaaaggc acttgggtgca gaggtctatg actgcaacaa catggtggaa cagagctgcc 420
tggaagcggg ctctcgtgt aacaaaactt tcgtncgct gaaaancccg ttccaactcc 480
ccnaaatcnt ttttcaanng 500

```

<210> 541  
 <211> 508  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 541

```

agnnaggagn ggtgnnncat ngntagnng ntnaannaaa tncncgtacc ggtccggaat 60
cccgggtcga cccacgcgtc cgctccagca ttgtgttctg attcacctgc tccaatggct 120
gttctttctg ctgctgatgn ttccccggtc tcagctatcg ggtttgaggg ctatgagaag 180
cgcccttgaga tcacattctc tgaggcacct gtctttgtgg accctcatgg gcgtgggttg 240
cgtgccctct ccaggggcca gattgactct gttctggatc ttgcacggtg cacaattgtg 300
tccgagctct ccaacaagga ttctgactca tatgtcctct ctgagtcaag cttgtttatc 360
tatactctga agattgtcat caagacctgt ggcactacca agctcctgct caccattcca 420
agaatccttg agcttgctga agaagctgtc tatgccactt gctgctgtga aagtacttcc 480
gtgggacgtc atctttcctg gtgcacac 508

```

<210> 542  
 <211> 468  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 542

```

ggnnnnngta ctttanntnn cagaggcctg gtcaagnnca agcgggtcga nncangcntn 60
nncagactt ctgcgntctc agctatcggg tttaggggct atgagaagcg ccttgagaca 120
cattctctga ggcacctgtc ttgtggacc ctcatgggcg tggtttgctg gccctctcag 180
ggcccagatt gactctgttc tggatcttgc acggtgcaca attgtgtctg agctctcaac 240
aaggatttcg actcatatgt cttttctgaa gtcaagcttg tttatctatc ctctgagatt 300
gtcatcaaga cctgtggcac taccaagctc ctgctcacca ttccaagaat ccttagcttg 360
ctgaagagct gtctatgcc a ttgctgctg tgaagtactc ccgtgggacg ttctctttcc 420
tgggcgcaca gccagcccc cacangagct tctctganga agttgctg 468

```

<210> 543  
 <211> 494  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 543

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ggnnngnaact tctacgccgc cggtttcggt cgncaaattc ccgggtaaac ccacgcgtcg 60
nccacgcgtc cgcccacgcg tccgggggtcc ttcggtgctt tggcccctcg gagttttcgt 120
tgccgtgacc atcttcggcg ggcgtggcca tgccgggaca tggggaaagg cacttgggca 180
gaggctctatg actgcaacaa catggtggag caggagctgc ctggaggcgg gctcctgtgt 240
accagagctt ctgtgctgct gaagacgctg ttgctacctc gcccaaactc gttttcactg 300
ctttgacggc gagaacgtgg agagtgtcc tctcctatg aagaaggact acaactggct 360
aatcttctat gctgggagga ggaagcggat gccatggagg agaangcggg agtcttgatg 420
agtaagacgg gcttctgggg tccaattgcc tccganttgg ttaatttaaa actcccaa 480
ttntgggttg cctt 494

```

<210> 544  
 <211> 511  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 544

```

agtgtnaann ggntggnnng nnangttntn ctgtacngaa nngnannntc gaccnanncg    60
tacgctttcg gctacgnnat tctantagtt taggatttct tttctgacac tttgattctg    120
accaatctcn ctggcctgct gcttcctgat aatcgaccag ttccccagtc ttgctccttg    180
cactcctccc tccatctcca gcattgtggt ctgattcacc tgcaccaatg gctgntcttt    240
ctgctgctga tgcttcccg tctcagctat cgggtttgag ggctatgaga agcgccttga    300
gatcacattc tctgaggcac ctgtctttgt ggacctcat gggcgtgggt tgcgtgccct    360
ntncaggggc cagattgact ctggtctgga tcttgacagg tgcacaattg tgtncgagct    420
nttcaacaag gatttcgact natatgtcct tctgaatcaa acctgggttat ctatcctctg    480
naaaatggca atcaaaaacc tgtgggacta c                                     511
  
```

<210> 545  
 <211> 478  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 545

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ttnnntgccn ngccggtcna ngtcacaang ncccgggtcg acccacgcgt ccnttgggggt    60
cacctgctcc aatggctgtt ctttctgctg ctgatgcttc cccggtctca agctatcggt    120
ttgagggcta tgagaagcgc cttgagatca cattctctga ggcacctgtc tttgtggccc    180
tcatgggcgt ggtttgctg ccctctccag ggcccagatt gactctgttc tggatctgca    240
cgggtgcacaa ttgtgtctga gctctccaac aaggatttcg actcatatgt ccttttgagt    300
caagcttggt tatctatcct ctgaagattg tcatcaagac ctgtggcact accagctcct    360
gctcaccatt ccaagaatcc ttgagcttgc tgaagaactg tctaagccac ttgtgctgtg    420
aaatacccn tgggaaattn aaacctttcc ngngcacaan caacccccca cagagctt      478
  
```

<210> 546  
 <211> 533

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 546

ggnnaggnca ggtttganng nnggnatggg ggaaatnntt cgcccgaat tcccgggtcg 60  
acccacgcgt ccgtgaagat tgatcatcaag acctgtggca ctaccaagct cctgctcaca 120  
attccaagga tcctagagct tgctgaagag ctgtctatgc ctcttgctgc tgtgaagtac 180  
tcccgcggga cgttcatctt tcctggcgca cagccagccc cccaccggag cttctccgag 240  
gaagttgctg tacttaaccg atactttggg ggccatgaagt ctggtggcaa tgcttatgtg 300  
attggagatg cagcaagacc aggacagaag tggcacatct actacgccac tgagtaccca 360  
nagcaaccaa tggatcaacct tgagatgtgc atgactgggc tggacacgaa gaaagcttca 420  
gtcttcttca agactaatgc tgatggcaac acaacatggt ccaagggaat gaccaaactt 480  
tttggnatct ctgaaattat tcctggaaat gganatttgn gattttgact nca 533

<210> 547

<211> 485

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 547

gggnnngtaa ntactagnn cgnncnaata canagnncng tnggncnnta caannncnctc 60  
agtgnntcnt ncnactgctt tgacggcgag aacgtggaga gtgctcctcc tcctatgaga 120  
aggactacaa gctggctaata cttctctgct gggaggagga agcggatgcc atggagggaa 180  
ggcgggagtg cttgatgagt aagacgggct tctgggggtcg atttgcttct gagttgttat 240  
tttatatcgt cgcaatttcg tggttgtcgt ttggttatc tgtgaagcag ccaagcaggc 300  
tattgttatg aaaatttgc gtctgtaagc atgtgaactt ccgatgttgc cacagctgga 360  
tnagtctgaa taagtaagta tgcaactcta nggtggtcanc tgcgtctaac acatgaagca 420  
tgaacgtntg gagaaatntc cgtgnaaccc atttgtttat gaaaaaanat tgnnttttctn 480  
aattt 485

<210> 548

<211> 442

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 548  
  
 cggaacnctg ggggtggctac tccatgaatg cgatccatgg ctctgcattc tccacaatcc 60  
 atgtgacgcc cgaggacggg ttcaagctatg ccagttatga gggttatggg ttggatgcc 120  
 ctgctctgtc ttatggtgac cttgtcaaga gggctccttc gtgctttggc ccctcggagt 180  
 tttccgttgc cgtgaccatc ttccggcggg gtggccatgc cgggacatgg ggaaaggcac 240  
 ttggtgcaaa ggtctatgac tgcaacaaca tgggtggaaca agagctgcct ggaggcgggc 300  
 tcctcgtgta ccaaacttc tgtgctgctg aagacgctgt tgctacctcc ccaaactctgt 360  
 ttttcaactgc tttagccgcn aaaacgtgga aaagtgttc tctctatnaa agaaagacta 420  
 caaactggct aatcttntat gg 442

<210> 549  
 <211> 449  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 549  
  
 gggaagtgtc tgcacttaac cgctactttg gcggcctgaa atctggtggg aatgcttnng 60  
 tgnntggaga tccagcaaga cctggacaga aatggcacgt cttctacgcc actgagtacc 120  
 cagagcaacc aatgggttaac cttgaaatgt gcatgactgg tctggacaag aagaaagctt 180  
 ctgtcttttt caagactaat gctgatggga acacaacatg tgccaaggaa atgacaaagc 240  
 tctctggcat ctctgaaatc atccccgaga tggagatctg cgattttgac tttgaaccct 300  
 gtggctactc catgaatgcg atccatggct ctgcattctc cacaatccat gtgacgcccg 360  
 aggaagggtt cagctatcca gttatgaagg tatnggcttg gatcccctgc tcttgcntat 420  
 ngggancctt tcnagaaggg tccttcggg 449

<210> 550  
 <211> 512  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<400> 550

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ggngnnnnnnn tggnnngngn aattntacgc cgtcngtagc ctcanagaat tccaaggtca 60
cccacccgtc cnatttcttn tctgacactt tgnttctgac cantctctct ggctgctct 120
tcctganant cnatcatgtt ccncaggtct tgctccttgc actcctccct ccattctcagc 180
attgtgttct ggttcacctt gctccaatgg ctgttctttc tgntgctgat gcttcccggg 240
ctcanctatc ggggttgagg gcnatgagaa ggcgccttgag atcanattct ccgagcacct 300
gtctttgtgg accctcatgg gcgtgggttg cgtgccctct ccagggccca cattantctg 360
ttctggatct gcacngtgca cnnttggtgc tgagctctcc aacacggntt tcgctcaata 420
tgtcctttct gagtcaagct tgtttatcta tcctctgnag attgtnttca atccngtggn 480
actaccaagc tcctgctcaa tantcnaaga at 512
```

<210> 551

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 551

```
ggcggcctga aatctggtgg taatgcttat gtgattggag atccagcaag acctggacag 60
aagtggcacg gggnctacgc cactgagtcc cagagcaacc aatggttaac cttgaaatgt 120
gcatgactgg tctggacaaa gaaganagct tctgtctttt tcaaagacta atgctgatgg 180
gaacacaaca tgtgccaagg aaatgacaaa gctctctggc atctctgaaa tcatccccga 240
gatggagatc tgcgattttg actttgaacc ctgtggctac tccatgaatg cgatccatgg 300
ctctgcattc tccacaatcc atgtgacgcc cgaggacggt ttcagctatg ccaagttatg 360
aggttatggg cttggatccc actggtttgg cttatggnga ccttntcaaa aanggtcctt 420
cggngctttt gggcccctcg gaagnttt 448
```

<210> 552

<211> 384

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 552

atcctctgaa gattgtcatc aagacctgtg gcactaccaa gctcctgctc accattccaa 60  
gaatccttga gcttgctgaa gagctgtcta tgccacttgc tgctgtgaag tactcccgtg 120  
ggacgttcat ctttcctggg gcacagccag cccccacag gagcttctct gaggaagttg 180  
ctgcacttaa ccgctacttt ggcggcctga aatctgggtg taatgcttat gtgattggag 240  
atccagcaag acctggacag aagtggcacg tcttctacgc cactgagtac ccagagcaac 300  
caatggntaa ccttgagatg tgcattgactg gtctggacaa gaaagaaagc ttctgtcttt 360  
ttcaaagact aaatgctgat ggga 384

<210> 553

<211> 469

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 553

gtgccaagga aatgacgaag ctctctggtn tctctgaaat tatccctgag atggggatcg 60  
gtgatattga cttcgaacct tgcggtact ccatgaatgc aatccatggc tctgcgttct 120  
ccacngatcc atgtgacgcc tgaggatggg ttcagctacg ccagttatga ggttatgggc 180  
ttggatgcca ctgccctgtc ttacggtgac cttgtcaaga gggtccttgg gtgcttcggc 240  
ccctcagaat tttctgtcgc cgtgaccatc ttccggcgggc ggngccaagc tgggacatgg 300  
ggaaaggaac ttggtgcgga ggcttatgac tgcaacaaca tggtcgagca ggagctgcct 360  
ggaggtggga tctcatcta ccaaagcttc ttgtgctgnt gaaanacccc gttgctagct 420  
cgcccaaata cgggtcttcgc tgctttgaat ggcaanaaat gcaacancc 469

<210> 554

<211> 347

<212> DNA

<213> Zea mays

<400> 554

ctctgcattc tccacaatcc atgtgacgcc cgaggacggg ttcagctacg ccagttacga 60  
ggttatgggc ttggatgcca ctgctctgtc ttatgggtgac ttgtcaagag ggtcctccgg 120  
tgctttggcc cctcagagtt ttccgttgcc gtgaccatct tcggcgggcg tggccatgcc 180  
gggacatggg gaaaggcact tgggtgcagag gtctatgact gcaacaacat ggtggagcag 240



gagctgcctg gaggcgggct cctcgtgtac cagagcttct gtgctgctga agacgctggt 300  
gctacctcgc ccaaactctgt tttccatgct ttgacggcga gaacgtg 347

<210> 555  
<211> 435  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 555

gcntnactng cctngncnng aanaaagttt ttntcnntgn caanacnaat gctgatgggn 60  
gggcancatg tgncaaggan gtggcnaagc tctatgncat ntctgaaatc atccccgaga 120  
tgagatctg cgattntgac ttccnaccct gtggctactc catgaatgag atccatggct 180  
ctgcattctc cacaatccat gtgacgcccg agnncgggtt cagctacncc agttacgagg 240  
ttatgggctt ggatgccact gntntgtctt atggcgacct tgtcaagagg gtccttcggt 300  
gctttgcccc tcagagtttt acgangccgt gaccatcttc ngcngaagtg nccatgcctg 360  
gacatggggg aaaggcactt ggtgccnagg cctattnctg nnacancatg gtggaacang 420  
agcngccttg angca 435

<210> 556  
<211> 334  
<212> DNA  
<213> Zea mays

<400> 556

caacaacatg gtggagcagg agctgcctgg aggcgggctc ctcgtatacc agagcttctg 60  
cgctgctgaa gacgctgttg ctacctcgcc caaatctggt ttccactgct ttgacggcga 120  
gaacgtggag agtgctcctc ctcctatgaa gaaggactac aaactagcta atcttctctg 180  
ctgggaggag gaagcggatg ccatggagga gaaggcggga gtgcttgatg agtaagacgg 240  
gcttctggtg tcgatttgct tctgagttgt ttattttata tcgtcgcaat ttcgtgggtg 300  
tcgtttggtt attctgtgaa gcagccaagc cagg 334

<210> 557  
<211> 404  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 557

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gnnaggnnnn ttnnnatggg nggnnatntn atgcancgct cgtaccgggc cggaattccc 60
gggtcgaccc acgcgtccgc tcatatgtcc tttctgagtc aagcttggtt atctatcctc 120
tgaagattgt catcaagacc tgtggcacta ccaagctcct gctcaccatt ccaagaatcc 180
ttgagcttgc tgaagagctg tctatgccac ttgctgctgt gaagtactcc cgtgggacgt 240
tcatctttcc tggcgcacag ccagcccccc acaggagctt ctctgaggaa gttgctgcac 300
ttaaccgcta ctttggcggc ctgaaatctg gtggtaatgc ttatgtgatt ggagatccag 360
caagacctgg acagaagtgg cacgtcttct acgccactga gtac 404
```

<210> 558

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 558

```
atcgggtttg agggctatga gaagcgcctt gagatcacat tctctgaggc acctgtcttt 60
gtggaccctc atgggcgtgg tttgcgtgcc ctctccaggc ccagattga ctctgttctg 120
gatcttgac ggtgcacaat tgtgtccgag ctctncaaca aggatttoga ctcatatgtc 180
ctttctgagt caagcttggt tatctatcct ctgaagattg tcatcaagac ctgtggcact 240
accaagctcc tgctcaccat tccaagaatc cttgagcttg ctgaagaact gtctatgcca 300
cttgctgntg tgaaagtact cccgtgggga cgttcatctt tcctggcgca caagncaggc 360
ccccacaagg agcttntttt gaaggaagt gcttgnactt taaccggtta atttgggggg 420
ccttgaaant 430
```

<210> 559

<211> 319

<212> DNA

<213> Zea mays

<400> 559

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gaacacaaca tgtgccaagg aaatgacaaa gctctctggc atctctgaaa tcatccccga 120  
gatggagatc tgcgattttg acttcgaacc ctgtggctac tccatgaatg cgatccatgg 180  
ctctgcattc tccacaatcc atgtgacgcc cgaggacggg ttcagctacg ccagttacga 240  
ggttatgggc ttggatgcca ctgctctgtc ttatgggtgac cttgtcaaga gggtcctccg 300  
gtgctttggc ccctcagag 319

<210> 560

<211> 346

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 560

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gcaaccaatg gttaaccttg agatgtgcat gactggctctg gacaagaaga aagcttgtgt 120  
ctttttcaag actaatgctg atgggaacac aacatgtgcc aaggaaatga caaagctctc 180  
tggcatctct gaaatcatcn ttnagatgga gatctgcatg tttgacttgc aaccctgtgg 240  
ctactccatg aatgcgatcc atggctctgc attctccaca atccatgtga cgcccgagga 300  
cggtttcagt acgccattac gaggttatgg gcttggatgc catgct 346

<210> 561

<211> 317

<212> DNA

<213> Zea mays

<400> 561

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aaagctctct ggcattctctg aaatcatccc cgagatggag atctgcatg ttgacttgcga 180  
accctgtggc tactccatga atgcgatcca tggctctgca ttctccacaa tccatgtgac 240  
gcccagaggac ggtttcagct acgccagtta cgaggttatg ggcttggatg cactgctct 300  
gtcttatggg gaccttg 317

<210> 562

<211> 342

<212> DNA  
 <213> Zea mays  
 <400> 562  
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 cgtgaccatc ttcggcgggc gtggccatgc cgggacatgg ggaaaggcac taggtgcaga 180  
 ggtctatgac tgcaacaaca tgggtggagca ggagctgcct ggaggcgggc tcctcgata 240  
 ccagagcttc tgcgctgctg aagacgctgt tgctacctcg cccaaatctg tttccactg 300  
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<210> 563  
 <211> 314  
 <212> DNA  
 <213> Zea mays  
 <400> 563  
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 tcctgataat cgaccagttc ccagtccttg ctccctgcac tcctccctcc atctccagca 180  
 ttgtgttctg attcacctgc tccaatggct gttctttctg ctgctgatgc ttccccggtc 240  
 tcagctatcg ggtttgaggg ctatgagaag cgccttgaga tcacattctc tgaggcacct 300  
 gtctttgtgg accc 314

<210> 564  
 <211> 541  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 564  
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 aattccccggg tcgaccacag cgtccggcaa caacatgggt gagcaggagc tgctggagg 120  
 cgggctcctc gtgtaccaga gcttctgtgc tgctgaagac gctgttgcta cctcgcccaa 180  
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ggactacaaa ctggctaate ttctatgctg ggaggaggaa ccggatgcc a tggaggagaa 300  
 ggcgggagtg cttgatgagt aagacggnet tntggggtn g atttgcttnt gagttgntta 360  
 ttttatatcg tngcaatttc cgtggntgtc gtttggttat tctgtgaagc agcnaancta 420  
 tgcttattgg tatnaaantt tgctgtntgt aagcntgtgn actttntact gttncannt 480  
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 t 541

<210> 565  
 <211> 308  
 <212> DNA  
 <213> Zea mays

<400> 565  
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 tcaagactaa tgctgatggg aacacaacat gtgccaagga aatgacaaag ctctctggca 120  
 tctctgaaat catccccgag atggagatct gcgattttga ctctgaaccc tgtggctact 180  
 ccatgaatgc gatccatggc tctgcattct ccacaatcca tgtgacgcc gaggacgggt 240  
 tcagctacgc cagttacgag gttatgggct tggatgccac tgctctgtct tatggtgacc 300  
 ttgtcaag 308

<210> 566  
 <211> 346  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 566

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 tccagtctgc tgcttactcc aactgcgcga agaagccatc ctgatatccc ttttggttc 120  
 cncattctag tagtttagga tttcttttct gacactttga ttctgaccaa tctctctggc 180  
 ctgctnttcc tgataatcga ccagttcccc agtcttgctc cttgcaactcc tccctcctcc 240  
 atctccagca ttgtgttctg attcacctgc tccaatggct gttctttctg ctgctgatgc 300  
 ttccccggtc tcagctatcg ggttgagggc tatgagaagc gccttg 346

<210> 567  
 <211> 303  
 <212> DNA  
 <213> Zea mays  
  
 <400> 567  
  
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 acaggagctt ctctgaggaa gttgctgcac ttaaccgcta ctttggcggc ctgaaatctg 180  
 gtggtaatgc ttatgtgatt ggagatccag caagacctgg acagaagtgg cacgtcttct 240  
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 aca 303

<210> 568  
 <211> 316  
 <212> DNA  
 <213> Zea mays  
  
 <400> 568  
  
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 tgacctgtgc aagaggggtcc tccggtgctt tggcccctcg gagttttccg ttgccgtgac 180  
 catcttcggc gggcgtggcc atgccgggac atggggaaag gcactaggtg cagaggtcta 240  
 tgactgcaac aacatggtgg agcaggagct gcctggaggc gggctcctcg tataccagag 300  
 cttctgcgct gctgaa 316

<210> 569  
 <211> 313  
 <212> DNA  
 <213> Zea mays  
  
 <400> 569  
  
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 gtcaagcttg tttatctatc ctctgaagat tgtcatcaag acctgtggca taccaagctc 120  
 ctgctcacca ttccaagaat ccttgagctt gctgaagagc tgtctatgcc acttgctgct 180  
 gtgaagtact cccgtgggac gttcatcttt cctggtgcac agccagcccc ccacaggagc 240

ttctctgagg aagttgctgc acttaaccgc tactttggcg gcctgaaatc tggtggtaat 300  
gcttatgtga ttg 313

<210> 570  
<211> 512  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 570

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gaccacgcg tccgcggacg cgtgggcgat tcttaccaat cccctggcc tgctgctttc 120  
ctgataatcg accagttccc cagtcttgct ccctgcagtc ctccctcctc catctccagc 180  
gttggtgttct gactcacctg caccaatggc tgttctttct gctgctggtg ctccccggc 240  
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tgtctttgtg gacccccatg gcagcggttt gcgtgccctc tccaggtecc agattgactc 360  
tgttctggat ctgacacggt gcacgatcgt gtccgagctc tccaacaagg attttgactc 420  
ctatgttctc tccgagtcaa gcttgtcatc tatcctctga agattgncat caagacctgt 480  
ggcactacca acttctggta caanttccag ga 512

<210> 571  
<211> 314  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 571

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cttggttaca gcattgagga cgttcgacct gccggagngt gaagaagttc cagtctgctg 120  
cttactccaa ctgcgcgaag aagccatcct gatatccctt ttggcttcct cattctagta 180  
gttttaggatt tcttttctga cactttgatt ctgaccaatc tctctggcct gctgcttcct 240  
gataatcgac cagttcccca gtcttgctcc ttgcactcct cctcctcca tctccagcat 300  
tgtgttctga ttca 314

<210> 572  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 572

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 gagggtcctt ggggtgcttcg gcccctcgga attttctgtc gccgtgacca tcttcggcgg 120  
 gcgngccaa gctgggacat ggggaaagga acttgggtgcg gaggcttatg actgcaacaa 180  
 catggtcgag caggagctgc ctggaggtgg gatcctcatc taccagagct tctgtgctgc 240  
 tgaagacgcc gttgctagct cgcccaaata cgttcttcgc tgctttgatg gcgagaatgc 300  
 agcacctttt gcgaaggact gcaagctggc taatcttgtc tgcttgaggg aagttggatg 360  
 ctatcgagga gaaagatgga gtgcttgatg agtaaaacng gtttcttggt gncgatttgc 420  
 tt 422

<210> 573  
 <211> 295  
 <212> DNA  
 <213> Zea mays

<400> 573

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 gctacgccag ttacgagggt atgggcttgg atgccactgc tctgtcttat ggtgaccttg 120  
 tcaagagggt cctccggtgc tttggcccct cagagttttc cgttgccgtg accatcttcg 180  
 gcgggcgtgg ccatgccggg acatggggaa aggcacttgg tgcagaggtc tatgactgca 240  
 acaacatggt ggagcaggag ctgcctggag gcgggctcct cgtgtaccag agctt 295

<210> 574  
 <211> 295  
 <212> DNA  
 <213> Zea mays

<400> 574

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 gcacaattgt gtctgagctc tccaacaagg atttcgactc atatgtcctt tctgagtcaa 120



gcttgtttat ctatcctctg aagattgtca tcaagacctg tggcactacc aagctcctgc 180  
 tcaccattcc aagaatcctt gagcttgctg aagagctgtc tatgccactt gctgctgtga 240  
 agtactcccg tgggacgttc atctttcctg gcgcacagcc agccccccac aggag 295

<210> 575  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<400> 575

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 actaccaagc tcctgctcac cattccaaga atccttgagc ttgctgaaga gctgtctatg 120  
 ccacttgctg ctgtgaagta ctcccggtgg acgttcattt ttcttggtgc acagccagcc 180  
 cccacagga gcttctctga ggaagttgct gcacttaacc gctactttgg cggcctgaaa 240  
 tctggtggta atgcttatgt gattggagat ccagcaagac ctggacagaa gtggcacgt 299

<210> 576  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<400> 576

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 gtctatgcc cttgctgctg tgaagtactc ccgtgggacg ttcattcttc ctggtgcaca 180  
 gccagccccc cacaggagct tctctgagga agttgctgca ctttaaccgct actttggcgg 240  
 cctgaaatct ggtggtaatg cttatgtgat tggagatcca gcaagacctg gacagaagt 299

<210> 577  
 <211> 297  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 577

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 aagcgatgc catggaggag aaggcgggag tgcttgatga gtaagacggg cttctggggg 120

cgatttgctt ctgagttggt tattttatat cgtcgcaatt tcgtgggtgt cgtttggtta 180  
 ttctgtgaag cagccaagcc aggctattgt tatgaaaatt tgtcgtctgt aagcatgtga 240  
 acttccgatg ttgccacatg ctggatcagt ctgaataagt aagtatgcag ctctagg 297

<210> 578  
 <211> 303  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 578

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 actggtctgg acaagaagaa agcttgtgtc tttttcaaga ctaatgctga tgggaacaca 120  
 acatgtgcc aaggaaatgac aaagctctct ggcatctctg aaatcatccc cgagatggag 180  
 atctgcgatt ttgacttcga accctgtggc tactccatga atgcgatcca tggctctgca 240  
 ttctccacaa tccatgtgac gcccgaggac ggtttcagct acgccagtta cgagggttatg 300  
 ggc 303

<210> 579  
 <211> 304  
 <212> DNA  
 <213> Zea mays

<400> 579

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 cttatgggtga ccttgtcaag agggtccttc ggtgctttgg cccctcggag ttttccgttg 120  
 ccgtgaccat cttcggcggg cgtggccatg ccgggacatg gggaaaggca cttggtgcag 180  
 aggtctatga ctgcaacaac atggtggagc aggagctgcc tggaggcggg ctctctgtgt 240  
 accagagctt ctgtgctgct gaagacgctg ttgctacctc gcccaaactct gttttccact 300  
 gctt 304

<210> 580  
 <211> 340  
 <212> DNA  
 <213> Zea mays

<223>        unsure at all n locations  
 <400>        580

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acaaactggc taatcttcta tgctgggagg aggaagcgga tgccatggag gagaaggcgg   120
gagtgttga tgagtaagac gggcttctgg ggtcgatttg cttctgagtt gtttatttat   180
atcgtcgcaa tttcgtgggt gtcgtttggt tatctgtgaa gcagccaagc caagctattg   240
ttatgaaaat tgtcgtctgt aagcatgtga acttccgacg ttgccacatg ctggatcatc   300
tgaataagta agtatgcagc tctaggtgtc agctgcgtct                               340

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<210>        581  
 <211>        344  
 <212>        DNA  
 <213>        Zea mays

<223>        unsure at all n locations  
 <400>        581

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tgggaacaca gcatgtgcca aggaaatgac aaagctctct ggcattctctg aaatcatccc   60
cgagatggag atctgcgatt tgacttgaac cctgtggcta ctccatgaat gcgatccatg   120
gctctgcaat ctccacaatc catgtgacgc ccgaggacgg gttcagccaa gccagnaatg   180
aggctaaggg cctngaagcc actgctctgt cttatggtga ccttgtcaag agggtccttc   240
ggtgctttgg ccctcgggag ttttccgttg ccgtgaccat cttcggcggg cgtggccatg   300
ccgggacatg gggaaangca ttggtgcaga ggtctatgac tgca                               344

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<210>        582  
 <211>        300  
 <212>        DNA  
 <213>        Zea mays

<400>        582

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cctccctcct ccattctccag cattgtgttc tgattcacct gctccaatgg ctgttctttc   120
tgctgtgat gcttccccgg tctcagctat cgggtttgag ggctatgaga agcgcttga   180
gatcacattc tctgaggcac ctgtctttgt ggaccctcat gggcgtggtt tgcgtgccct   240
ctccagggcc cagattgact ctgttctgga tcttgacagg tgcacaattg tgtccgagct   300

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<210> 583  
 <211> 298  
 <212> DNA  
 <213> Zea mays

<400> 583

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 gctgaagagc tgtctatgcc acttgctgct gtgaagtact cccgtgggac gttcatcttt 180  
 cctggtgcac agccagcccc ccacaggagc ttctctgagg aagttgctgc acttaaccgc 240  
 tactttggcg gcctgaaatc tgggtggaat gcttatgtga ttggagatcc agcaagac 298

<210> 584  
 <211> 351  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 584

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 accgctactt tggcggcctg aaatctggtg gtaatgctta tgtgattgga gatccagcaa 180  
 gatctggaca gaagtggcac gtcttctacg ccaactgagta ccagagcaa ccaatgggta 240  
 accttgagat gtgcatgact ggtctggaca agaagaaagc ttgtgtcttt tcaagactaa 300  
 tgctgatngg gaacacaaca tgtgccaag gnaatgacna agctctctng c 351

<210> 585  
 <211> 291  
 <212> DNA  
 <213> Zea mays

<400> 585

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 cgggacatgg ggaaaggcac ttggtgcaga ggtctatgac tgcaacaaca tgggtggagca 120  
 ggagctgcct ggaggcgggc tcctcgtgta ccagagcttc tgtgctgctg aagacgctgt 180  
 tgctacctcg cccaaatctg ttttccactg ctttgacggc gagaacgtgg agagtgtctc 240

tcctcctatg aagaaggact acaagctggc taatcttctc tgctgggagg a 291

<210> 586  
 <211> 514  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 586

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 ccgggtcgac ccacgcgtcc gggagctgcc tggaggcggg ctctctgtgt accagagctt 120  
 ctgtgctgct gaagacgctg ntgctacctc gcccaaactct gttttccact gctttgacgg 180  
 cgagaacgtg gagagtgtc ctctcctat gaagaaggac tacaagctgg ctaatcttct 240  
 ctgctgggag gaggaagcgg atgccatgga ggagaaggcg ggagtgttg atgagtaaga 300  
 cgggcttctg gggtcgattt gcttctgagt tgtttatttt atatcgtngc aatttcttgg 360  
 ttgtcgtnng gttattntgn ggaagnagnn aanccaggct attngtaatg aaaanntnnt 420  
 tntntaata ntattaactt tnnnatnttn tcaanattct tgatnannnt tantaataan 480  
 ttatntaatn tntaaggtnn nannnttnnn ttnt 514

<210> 587  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<400> 587

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 gaagtggcac gtcttctacg ccactgagta cccagagcaa ccaatggta accttgagat 120  
 gtgcatgact ggtctggaca agaagaaagc ttgtgtcttt ttcaagacta atgctgatgg 180  
 gaacacaaca tgtgccaagg aaatgacaaa gctctctggc atctctgaaa tcatccccga 240  
 gatggagatc tgcgattttg acttcgaacc ctgtggctat ccatgaatgc gatccatgg 299

<210> 588  
 <211> 288  
 <212> DNA  
 <213> Zea mays

<400> 588

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tacctcgccc aaatctgttt tccactgctt tgacggcgag aacgtggaga gtgctcctcc 120

tcctatgaag aaggactaca agctggctaa tcttctctgc tgggaggagg aagcggatgc 180

catggaggag aaggcgggag tgcttgatga gtaagacggg cttctgggggt cgatttgctt 240

ctgagttgtt tattttatat cgtcgcaatt tcgtggttgc cgtttggt 288

<210> 589

<211> 305

<212> DNA

<213> Zea mays

<400> 589

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tcaccattcc aagaatcctt gagcttgctg aagagctgtc tatgccactt gctgctgtga 120

agtactcccg tgggacgttc atctttcctg gcgcacagcc agccccccac aggagcttct 180

ctgaggaagt tgctgcactt aaccgctact ttggcggcct gaaatctggg ggtaatgctt 240

atgtgattgg agatccagca agacctggac agaagtggca gtcttctacg ccaactggagt 300

accca 305

<210> 590

<211> 295

<212> DNA

<213> Zea mays

<400> 590

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gtggccatgc cgggacatgg ggaaaggcac ttggtgcaga ggtctatgac tgcaacaaca 120

tggtggagca ggagctgcct ggaggcgggc tcctcgtgta ccagagcttc tgtgctgctg 180

aagacgctgt tgctacctcg cccaaatctg ttctccactg ctttgacggc gagaacgtgg 240

agagtgtctc tcctcctatg aagaaggact acaaactggc taatcttcta tgctg 295

<210> 591

<211> 298

<212> DNA

<213> Zea mays

<400> 591

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ctattgttat gaaaatttgt cgtctgtaag catgtgaact tccgatgttg ccacatgctg 180  
gatcagtctg aataagtaag tatgcagctc taggtgggtca gctgctgcta ccacaatgag 240  
catgaacgta tggagaaata tctgtgaacc catttgttta tgaataagat tgtttttt 298

<210> 592

<211> 320

<212> DNA

<213> Zea mays

<400> 592

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gtctgggtggc aatgcttatg tgattggaga tgcagcaaga ccaggacaga agtggcacat 180  
ctactacgcc actgagtacc cagagcaacc aatgggtcaac cttgagatgt gcatgactgg 240  
tctggacacg aagaaagctt cagtcttctt caagactaat gctgatggca acacaacatg 300  
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<210> 593

<211> 284

<212> DNA

<213> Zea mays

<400> 593

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tggtgacctt gtcaagaggg tcctccggtg ctttggcccc tcagagtttt ccgttgccgt 180  
gaccatcttc ggggggctg gccatgccgg gacatgggga aaggcacttg gtgcagaggt 240  
ctatgactgc aacaacatgg tggagcagga gctgcctgga ggcg 284

<210> 594

<211> 285  
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 <213> Zea mays  
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 ctggcctgct gcttcctgat aatcgaccag ttccccagtc ttgctccttg cactcctccc 180  
 tccatctcca gcattgtggt ctgattcacc tgctccaatg gctgttcttt ctgctgctga 240  
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 tgatatccct tttggcttcc tcattctagt agtttaggat ttcttttctg acactttgat 180  
 tctgaccaat ctctctggcc tgctgcttcc tgataatcga ccagttcccc agtcttgctc 240  
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<210> 596  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 596  
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 agtttaggat ttcttttctg acactttgat tctgaccaat ctctctggcc tgctgcttcc 180  
 tgataatcga ccagttcccc agtcttgctc cttgcactcc tccctccatc tccagcattg 240  
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<210> 597  
 <211> 281  
 <212> DNA  
 <213> Zea mays  
  
 <400> 597  
  
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 ggacagtctt ctacgccact gagtaccag agcaaccaat ggttaacctt gagatgtgca 180  
 tgactggtct ggacaagaag aaagcttggtg tctttttcaa gactaatgct gatgggaaca 240  
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<210> 598  
 <211> 285  
 <212> DNA  
 <213> Zea mays  
  
 <400> 598  
  
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 ccacttgctg ctgtgaagta ctcccggtgg acgttcatct ttcttggtgc acagccagcc 180  
 cccacagga gcttctctga ggaagttgct gcacttaacc gctactttgg cggcctgaaa 240  
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<210> 599  
 <211> 292  
 <212> DNA  
 <213> Zea mays  
  
 <400> 599  
  
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 gttttccgtt gccgtgacca tcttcggcgg gcgtggccat gccgggacat ggggaaaggc 120  
 acttggtgca gaggtctatg aactgcaaca acatggtgga gcaggagctg cctggaggcg 180  
 ggctcctcgt gtaccagagc ttctgtgctg ctgaagacgc tgttgctacc tcgccccaaat 240  
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<210> 600  
 <211> 346  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 600  
  
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 ggccctgaaat ctggttggtaa tgcttatgtg attggagatc cagcaagacc tggacagaag 120  
 tggcacgtct tctacgccac tgagtaccca gagcaaccaa tggttaacct tgagatgtgc 180  
 atgactggtc tggacaagaa gaaagcttct gtctttttca agactaatgc tgatgggaac 240  
 acagcatgtg ccaaggaaat gacaaagctc tctggcatct ctgaaatcat cccgagtgga 300  
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<210> 601  
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 <212> DNA  
 <213> Zea mays  
  
 <400> 601  
  
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 tgggtggtaat gcttatgtga ttggagatcc agcaagacct ggacagaagt ggcacgtctt 180  
 ctacgccact gagtaccag agcaaccaat ggtaacctt gagatgtgca tgactgggtct 240  
 ggacaagaag aaagcttctg tctttttcaa gactaatgct ga 282

<210> 602  
 <211> 288  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 602  
  
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 tgtttatcta tcctctgaag attatcntca agacctgtgg cactaccaag ctctgtctca 120  
 ccattccaag aatccttgag cttgctgaag agctgtctat gccacttgct gctgtgaagt 180  
 actcccgtgg gacgttcac tttcctggtg cacagccagc ccccccacagg agcttctctg 240

aggaagttgc tgcacttaac cgctactttg gcggcctgaa atctgggtg 288

<210> 603  
<211> 283  
<212> DNA  
<213> Zea mays

<400> 603

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cacctgctcc aatggctggt ctttctgctg ctgatgcttc cccgggtctca gctatcgggt 120  
ttgagggcta tgagaagcgc cttgagatca cattctctga ggcacctgtc tttgtggacc 180  
ctcatgggcg tggtttgctg gccctctcca gggcccagat tgactctggt ctggatcttg 240  
cacggtgcac aattgtgtcc gagctctcca acaaggattt cga 283

<210> 604  
<211> 276  
<212> DNA  
<213> Zea mays

<400> 604

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ccaatgggta accttgagat gtgcatgact ggtctggaca agaagaaagc ttgtgtcttt 180  
ttcaagacta atgctgatgg gaacacaaca tgtgccaaagg aaatgacaaa gctctctggc 240  
atctctgaaa tcatccccga gatggagatc tgcgat 276

<210> 605  
<211> 281  
<212> DNA  
<213> Zea mays

<400> 605

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ccaggctatt gttatgaaaa tttgtcgtct gtaagcatgt gaacttccga tgttgccaca 180  
tgctggatca gtctgaataa gtaagtatgc agctctaggt ggtcagctgc gtctaccaca 240

atgagcatga acgtatggag aaatatctgt gaaccattt g 281

<210> 606  
 <211> 309  
 <212> DNA  
 <213> Zea mays

<400> 606

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 ccatggcagc ggtttgctg ccctctccag gtcccagatt gactctgttc tggatcttgc 180  
 acggtgcacg atcgtgtccg agctctccaa caaggatttt gactcctatg ttctctccga 240  
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 cctgctcac 309

<210> 607  
 <211> 276  
 <212> DNA  
 <213> Zea mays

<400> 607

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 acggtgcaca attgtgtctg agctctccaa caaggatttc gactcatatg tcctttctga 180  
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<210> 608  
 <211> 282  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 608

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tcgtggttgt cgtttggtta ttctgtgaag cagccaagcc aggctattgt tatgaaaatt 180  
 tgctgtctgt aagcatgtga acttccgatg ttgccacatg ctggatcagt ctgaataagt 240  
 aagtatgcag ctctaggtgg tcagctgcgt ctaccacaat ga 282

<210> 609  
 <211> 274  
 <212> DNA  
 <213> Zea mays

<400> 609  
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 tttggcccct cagagttttc cgttgccgtg accatcttcg gcgggcgtgg ccatgccggg 180  
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<210> 610  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 610

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 gtggcaaaaa gtctagcagt agtcgttcta tgatgtatga agctcccctt ggctacagca 120  
 ttgaggacgt tcgacctgcc ggagggtgaa gaagttccag tctgctgctt actccaactg 180  
 cgccaagaag ccatcctgat atcccttttg gcttcctcat tctagtagtt taggatttct 240  
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<210> 611  
 <211> 324  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 611

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cntttcaaga ctaatgctga tgggaacaca acatgtgcc aaggaaatgac aaagctctct 120  
 ggcatctctg aaatcatccc cgagatggag atctgcgatt ntgacttcga accctgtggc 180  
 tactccatga atgcgatcca tgggnnnnng aactccacaa tccatgtgac gcccgaggac 240  
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 ctgtcaagag ggnccctccgg tgct 324

<210> 612  
 <211> 282  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 612

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 gctgctgatg cttcnccggn ctcagctatc gggtttgagg gctatgagaa gcgccttgag 180  
 atcacattct ctgaggcacc tgtctttgtg gaccctcatg ggcgtgggtt gcgtgccctc 240  
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<210> 613  
 <211> 279  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 613

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 ttggagatcc agcaagacct ggacagaagt ggcacgtctt ctacgccact gagtaccag 180  
 agcaaccaat ggttaacctt gagatgtgca tgactggtct ggacaagaag aaagcttgtg 240  
 tctttttcaa gactatgctg atgggaacac nacatgtgc 279

<210> 614  
 <211> 278  
 <212> DNA  
 <213> Zea mays

<223>        unsure at all n locations  
 <400>        614

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cntgccctct ccagggccca gattgactct gttctggatc ttgcacgggtg cacaattgtg   180
tccgagcnct ccaacaagga ttctgactca tatgtcctct ctgagtcaag cntgtttatc   240
tattcctctga agattgtcat caagacctgt ggcactac                           278
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<210>        615  
 <211>        279  
 <212>        DNA  
 <213>        Zea mays

<400>        615

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tcctatgaag aaggactaca agctggctaa tcttctctgc tgggaggagg aagcggatgc   180
catggaggag aaggcgggag tgcttgatga gtaagacggg cttctggggg cgatttgctt   240
ctgagttgtt tattttatat cgtcgcaatt tcgtgggtg                           279
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<210>        616  
 <211>        429  
 <212>        DNA  
 <213>        Zea mays

<223>        unsure at all n locations  
 <400>        616

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ctgtctatgc cacttgctgc tgngaagtac tcccagagga cgttcatntt tcctggtgca   180
cagncagccc nncacaggag cttctntgag gaagttgctg cacttaaccg ctactttggc   240
ggcctgaaat ctggtggtaa tgcttatgtg attggagatc cagcaagacc tgnacagaag   300
tggcacccgtc ttctacncca ctgaagtacc canagcaaac caatgggttaa ccttgagatg   360
tgcatgactt gntctggaca agaaagaaaag cttntggcctt tttnaagact aatnctgatg   420
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ggancaana

429

<210> 617  
<211> 277  
<212> DNA  
<213> Zea mays

<400> 617

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aaggaaatga caaagctctc tggcatctct gaaatcatcc ccgagatgga gatctgcgat 120  
tttgactttg aaccctgtgg ctactccatg aatgcgatcc atggctctgc attctctaca 180  
atccatgtga cgcccagga cggtttcagc tatgccagtt acgaggttat gggcttggat 240  
gccactgctc tatcttatgg tgaccttgctc aagaggg 277

<210> 618  
<211> 473  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 618

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tccccanac ctgttttcca ctgctttgac ggcgagaacg tggagagtgc tcctcctcta 120  
tgaagaagga ctacaagctg gctaattctt tctgctggga ngaggaagcg gatgccagga 180  
ggagaangcg ggagtgttg atgagtaaga cgggcttctg gggtcgattt gcttctagtt 240  
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ccaagctatt gttaagaaaa tttntcctcc ggtaaccagt nnaacttcca aagttccaaa 360  
ngcngggntt atccnaaaa attnntntnc nccccacg gnggggcanc tgctntntca 420  
aanatgagca tgaacttttg gggaaaaaan atnttggngg ccannntttt ttt 473

<210> 619  
<211> 264  
<212> DNA  
<213> Zea mays

<400> 619

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aagctcctgc tcaccattcc aagaatcctt gagcttgctg aagagctgtc tatgccactt 180  
gctgctgtga agtactcccg tgggacgttc atctttcctg gcgcacagcc agccccccac 240  
aggagcttct ctgaggaagt tgct 264

<210> 620  
<211> 275  
<212> DNA  
<213> Zea mays

<400> 620

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tgggaacaca gcatgtgcc aaggaaatgac aaagctctct ggcattctctg aaatcatccc 120  
cgagatggag atctgcgatt ttgactttga accctgtggc tactccatga atgcatcca 180  
tggctctgca ttctctacaa tccatgtgac gcccaggac ggtttcagct atgccagtta 240  
cgaggttatg ggcttggatg ccaactgctct atctt 275

<210> 621  
<211> 266  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 621

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acattctctg aggcacctgt ctttgtggac cctcatgggc gtggtttgcn tgccctctcc 120  
agggcccaga ttgactctgt tctggatctt gcacggtgca caattgtgtc tgagctctcc 180  
aacaaggatt tcgactcata tgtcctttct gagtcaagct tgtttatcta tcctctgaag 240  
attgtcatca agacctgtgg cactac 266

<210> 622  
<211> 278  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 622

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 ccgttgccgt gaccatcttc ggcgggctg gccatgccgg gacatgggga aaggcactag 180  
 gtgcagaggt ctatgactgc aacaacatgg tggagcagga gctgcctgga ggcgggctcc 240  
 tcgtatacca gagcttctgc gctgctgaag acgctggt 278

<210> 623  
 <211> 308  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 623

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 acagcattga ggacgttcga cctgccggag ggtgaagaag ttccagtctg ctgcttactc 180  
 caactgcggc gaagaagcca tcctgatata ccttttggct tcctcattct agtagtttag 240  
 gattctttct gacactttga ttctgaccaa tctctctggc ctgctgttcc ggataatcga 300  
 ccagttcc 308

<210> 624  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 624

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 ctgttctttc tgctgctgat gttccccgg tctcagctat cgggtttgag ggctatgaga 180  
 agcgccttga gatcacattc tctgaggcac ctgtctttgt ggacccttat ggcggtggtt 240  
 tgcgtgccct ttncagggcc nagattgact ctgttntgga tcttgnacgt nttcacannt 300  
 gngtgngngc nanntaaaag gatntnntct natatnnttt ntttanttan gnntttnatn 360  
 nnnntttaan ttnttntat nntttntnt tantaattnn tt 402

<210> 625  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 cccgaggacn gtggnnngct atgccagtta tgaggttatg ggcttggatg ccactgctct 180  
 gtcttatggt gaccttgtca agagggtcct tcggtgcttt ggcccctcgg agttttccgt 240  
 tgccgtgacc atcttcggcg gncgtggcca tgccgggaca tggggaaagg cacttggtgc 300  
 agaggtctat gactgcanca acatggtgga gcagganctg cctggaggcg gncnncnnnn 360  
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<210> 626  
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<400> 626

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 ctcatcttag tagtttagga tttcttttct gacactttga ttctgaccaa tctctctggc 180  
 ctgctgcttc ctgataatcg accagttccc cagtcttgct ccttgcactc ctccctccat 240  
 ctccagcatt gtgttctgat tcacctgctc caa 273

<210> 627  
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 <212> DNA  
 <213> Zea mays

<400> 627

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ggagagtgct cctcctccta tgaagaagga ctacaagctg gctaattctt tctgctggga 180  
ggaggaagcg gatgccatgg aggagaaggc gggagtgtt gatgagtaag acgggcttct 240  
ggggtcgatt tgctctgagt tgtttattta tatcgctgca attcgtgggt gt 292

<210> 628  
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<212> DNA  
<213> Zea mays

<400> 628  
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gcgccttgag atcacattct ctgaggcacc tgtctttgtg gacccccatg gcagcggttt 180  
gcgtgccctc tccaggcccc agattgactc tgttctggat cttgcaagggt gcacgatcgt 240  
gtccgagctc tccaacaagg attttgactc ctatgttctc tccgagtcaa gcttgttcat 300  
ctatcctctg a 311

<210> 629  
<211> 272  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 629

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ccaggctatt gttatgaaaa ttgtcgtct gtaagcatgt gaacttccga tgttgccaca 180  
tgctggatca gtctgaataa gtaagtatgc ngctctaggt ggtcagctgc gtctnccaca 240  
atgagcatga acgtatggag aaatatctgt ga 272

<210> 630  
<211> 272  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 630

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 tcttctctgc tgggaggagg aagcggatgc catggaggag aaggcgggag tncctgatga 180  
 gtaagacggg cttctggtgt cgatttgctt ctgagttggt tattttatat cgtcgcaatt 240  
 tcgtggttgt cgtttggtta ttctgtgaag ca 272

<210> 631

<211> 263

<212> DNA

<213> Zea mays

<400> 631

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 tcaccattcc aagaatcctt gagcttgctg aagagctgtc tatgccactt gctgctgtga 120  
 agtactcccg tgggacgttc atctttcctg gcgcacagcc agccccccac aggagcttct 180  
 ctgaggaagt tgctgcactt aaccgctact ttggcggcct gaaatctggt ggtaatgctt 240  
 atgtgattgg agatccagca aga 263

<210> 632

<211> 272

<212> DNA

<213> Zea mays

<400> 632

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 tttgactttg aaccctgtgg ctactccatg aatgcgatcc atggctctgc attctccaca 180  
 atccatgtga cgcccagga cggtttcagc tatgccagtt atgaggttat gggcttggat 240  
 gccactgctc tgtcttatgg tgacctgtc aa 272

<210> 633

<211> 295

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 633

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 gtttgcgtn cctctccagg gccagattg nctntgttct ggatcttgca cgggtgcacaa 180  
 tgtgtctgag ctctccaaca aggatttcga ctcatatgtc ctttctgagt caagcttggt 240  
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<210> 634

<211> 292

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 634

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 atctttcctg gcgcacagcc agccccccac aggagcttct ctgaggaagt tgctgcactt 180  
 aaccgctact ttggcggcct gaaatctggt ggtantgctt atgtgattgg agatccagca 240  
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<210> 635

<211> 270

<212> DNA

<213> Zea mays

<400> 635

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 ctgctgctta ctccaactgc gcgaagaagc catcctgata tcccttttgg cttcctcatt 180  
 ctagtagttt aggatttctt ttctgacact ttgattctga ccaatctctc tggcctgctg 240  
 cttcctgata atcgaccagt tccccagtct 270

<210> 636

<211> 270

<212> DNA

<213> Zea mays

<400> 636

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cttcctcatt ctagtagttt aggatttctt ttctgacact ttgattctga ccaatctctc 180

tggcctgctg cttcctgata atcgaccagt tccccagtct tgctccttgc actcctccct 240

ccatctccag cattgtgttc tgattcacct 270

<210> 637

<211> 267

<212> DNA

<213> Zea mays

<400> 637

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ctccaatggc tgttctttct gctgctgatg cttccccggg ctcagctatc gggtttgagg 120

gctatgagaa gcgccttgag atcacattct ctgaggcacc tgtctttgtg gaccctcatg 180

ggcgtggttt gcgtgccctc tccagggccc agattgactc tgttctggat cttgcacggg 240

gcacaattgt gtccgagctc tccaaca 267

<210> 638

<211> 281

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 638

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aatctgtttt ccaactgcttt gacggcgaga acgtggagag tgctcctcct cctatgaaga 120

aggactacaa gctggctaata cttctctgct gggaggagga agcggatgcc atggaggaga 180

aggcgggaggt gcttgatgag taagacgggc ttctggggtc gatttgcttc tgagttgttt 240

atatttatatc gtcgcaattc gtggntgtcg ttggttattc t 281

<210> 639

<211> 259

<212> DNA

<213> Zea mays

<400> 639

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gagcaaccaa tggttaacct tgagatgtgc atgactggtc tggacaagaa gaaagcttgt 120  
gtctttttca agactaatgc tgatgggaac acaacatgtg ccaaggaaat gacaaagctc 180  
tctggcatct ctgaaatcat ccccgagatg gagatctgcg attttgactt cgaaccctgt 240  
ggctactcca tgaatgcga 259

<210> 640

<211> 298

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 640

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gccctctcca ggtcccagat tgactctgtt ctggatcttg cacggtgcac gatcgtgtcc 120  
gagctctcca acaaggattt tgacncctat gttctctccg agtcaagctt gttcatctat 180  
cctctgaaga ttgtcatcaa gacctgtggc actaccaagc tcctgtcac aattccaagg 240  
atcctagagc ttgctgaaga gctgtctatn cctcttgcgt ctgtgaagta ctcccgcg 298

<210> 641

<211> 271

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 641

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gacctggaca gaagtggcac gtcttctacg ccaactgagta cccagagcaa ccaatgggta 120  
accttgagat gtgcatgact ggtctggaca agaagaaagc ttctgtcttt tnccaagact 180  
aatgctgatg ggaacacagc atgtgccaag gaaatgacaa agctctctgg catctctgaa 240  
atcatccccg agatggagat ctgcgatttt g 271

<210> 642

<211> 271



<212> DNA

<213> Zea mays

<400> 642

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acagagctgt ctatgccact tgctgctgtg aagtactccc gtgggacgtt catctttcct 120  
ggtgcacagc cagcccccca caggagcttc tctgaggaag ttgctgcact taaccgctac 180  
tttggcggcc tgaaatctgg tggtaatgct tatgtgattg gagatccagc aagacctgga 240  
cagaagtggc acgtcttcta cgccactgag t 271

<210> 643

<211> 273

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 643

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atggggaaaag gcacttggtg cagaggtcta tgactgcaac aacatgggtg agcaggagct 120  
gcctggaggc gggctcntcg tgtaccagag cttctgtgct gctgaagacg ctgttgctac 180  
ctcgcccaaa tctgttttcc actgctttga cggcgagaac gtggagagtg ctctcctcc 240  
tatgaagaag gactacaagc tggctaattct tct 273

<210> 644

<211> 257

<212> DNA

<213> Zea mays

<400> 644

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tgctttggcc cctcagagtt ttccgttgcc gtgaccatct tcggcgggcg tggccatgcc 120  
gggacatggg gaaaggcact tgggtgcagag gtctatgact gcaacaacat ggtggagcag 180  
gagctgcctg gaggcgggct cctcgtgtac cagagcttct gtgctgctga agacgctgtt 240  
gctacctcgc ccaaate 257

<210> 645

<211> 310  
 <212> DNA  
 <213> Zea mays  
  
 <400> 645  
  
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 tctgagtcaa gcttggttat ctatcctctg aagattgtca tcaagacctg tggcactacc 120  
 aagctcctgc tcaccattcc aagaatcctt gagcttgctg aagagctgtc tatgccactt 180  
 gctgctgtga agtactcccg tgggacgttc atctttcctg gtgcacagcc agccccccac 240  
 aggagcttct ctgaggaagt tgctgcactt aaccgctatt tggggcctga aatctggtgg 300  
 taatgcttag 310

<210> 646  
 <211> 278  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 646  
  
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 ccaggctatt gttatgaaaa tttgtcgtct gtaagcatgt gaacttcoga tgttgccaca 180  
 tgctggatca gtctgaataa gtaantatgc agctctaggt ggtcagctgc gtctaccaca 240  
 atgagcanng acntnntgga gaaatatctg tgaacccc 278

<210> 647  
 <211> 257  
 <212> DNA  
 <213> Zea mays  
  
 <400> 647  
  
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 cctcctatga agaaggacta caagctggct aatcttctct gctgggagga ggaagcggat 180  
 gccatggagg agaaggcggg agtgcttgat gagtaagacg ggcttctggg gtcgatttgc 240  
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 <212> DNA  
 <213> Zea mays  
  
 <400> 648  
  
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<210> 649  
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 <213> Zea mays  
  
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 agagtgtcc tcctcctat 259

<210> 650  
 <211> 256  
 <212> DNA  
 <213> Zea mays  
  
 <400> 650  
  
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 tgctttggcc cctcagagtt ttccgttgcc gtgaccatct tcggcgggcg tggccatgcc 120  
 gggacatggg gaaaggcact tgggtgcagag gtctatgact gcaacaacat ggtggagcag 180  
 gagctgcctg gaggcgggct cctcgtgtac cagagcttct gtgctgctga agacgctgtt 240  
 gctacctcgc ccaaat 256

<210> 651  
 <211> 267  
 <212> DNA  
 <213> Zea mays

<400> 651

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 atccatggct ctgcattctc cacaatccat gtgacgcccg aggacggttt cagctatgcc 180  
 agttatgagg ttatgggctt ggatgccact gctctgtctt atggtgacct tgtcaagagg 240  
 gtccttcggt gctttggccc ctcgag 267

<210> 652  
 <211> 531  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 652

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 agaggtgccg ggaccgagga tttggccgag ttctaggtag agaatcggtt ttacttgtct 180  
 cagccccggg tctgctgcgt ctggtggtgg tgaaggggag aaattcgtga gatctgttcc 240  
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 tgatgtacta atggagtcta aggggtggcaa aaagtctagc agtagtcgtt ctatgatgta 360  
 tgaagctccc cttggctaca gcattgagga cgttcgacct gcccgaggc gtgaagaagt 420  
 tccagtctgc tgcttactcc aactgcgcga agaagccatc ctgatatccc ttttggcttc 480  
 ctcatctag tagtttagga tttcttttct gacactttga ttctgaccaa a 531

<210> 653  
 <211> 279  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 653

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tctgctgctt actccaactg cgccaagaag ccatactgnt atcccttttg gcttctcat 120  
tctagtagtt taggatttct tttctgacac tttgattctg accaatctct ctgggcctgc 180  
tgcttctga taatcgacca gttccccagt cttgctcctt gcatcctccc tccatctcca 240  
gcattgtgtt ctgattcacc tgctccaatg gctgttctt 279

<210> 654  
<211> 488  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 654

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caacaacatg gtggagcang agctgcctgg aggcgggctc ctctgtacc aaagctttgt 180  
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acnttganaa tntctctcct cctangaaga aagantacaa actggntaat cttctanctg 300  
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nccgnnng 488

<210> 655  
<211> 252  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 655

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cttgtttatc tctctctga agattgtcat caagacctgt ggcactacca agctcctgct 180  
caccattcca agaatccttg agcttgctga agagctgtct atgccacttg ctgctgtgaa 240

gtactcccgt gg

252

<210> 656

<211> 282

<212> DNA

<213> Zea mays

<400> 656

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gagatgcagc aagaccagga cagaagtggc acatctacta cgccactgag taaccagagc 180  
aaccaatggg caaccttgag atgtgcatga ctggtctgga cacgaagaaa gcttcagtct 240  
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<210> 657

<211> 250

<212> DNA

<213> Zea mays

<400> 657

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ggcgcacagc cagcccccca caggagcttc tctgaggaag ttgctgcact taaccgctac 180  
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<210> 658

<211> 261

<212> DNA

<213> Zea mays

<400> 658

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atgtcctttc tgagtcaagc ttgtttatct atcctctgaa gattgtcatc aagacctgtg 180  
gcactaccaa gctcctgctc accattccaa gaatccttga gcttgctgaa gagctgtcta 240

tgccacttgc tgctgtgaag t 261

<210> 659

<211> 261

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 659

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actaatgctg atgggaacac aacatgtgcc aaggaaatga caaagctctc tggcatctct 180

gaatcatccc ngagatggag atctgctgatt tngacttcga accctgnggc tactccatga 240

ntgctgatcca tggctctgca t 261

<210> 660

<211> 454

<212> DNA

<213> Zea mays

<400> 660

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gcgtctgggtg gtggtgaagg ggagaaaattc gtgagatctg ttccggatca ggcgtgctgag 180

ctcgggaatc aggggtttca cacatagctt cgctcgattg aatttgatgt actaatggag 240

tctaagggtg gcaaaaagtc tagcagtagt cgttccatga tgtatgaagc tccccttggc 300

tacagcattg aggacgttcg acctgccgga ggcgtgaaga agttccagtc tgctgcttac 360

tccaactgctg cgaagaagcc atcctgatat cccttttggc ttcctcattc tagtaagttt 420

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<212> DNA

<213> Zea mays

<400> 661

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 ctgaaatctg gtggtaatgc ttatgtgatt ggagatccag caagacctgg acagaagtgg 120  
 cacgtcttct acgccactga gtaccagag caaccaatgg ttaaccttga gatgtgcatg 180  
 actggtctgg acaagaagaa agcttgtgtc tttttcaaga ctaatgctga tgggaacaca 240  
 acatgtgc 248

<210> 662  
 <211> 295  
 <212> DNA  
 <213> Zea mays

<400> 662  
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 atggctctgc gttctccacg atccatgtga cgctgagga tgggttcagc tacgccagtt 120  
 atgaggttat gggcttggat gccactgccc tgtcttacgg tgaccttgc aagaggggtcc 180  
 ttgggtgctt cgccccctcg gaattttctg tcgccgtgac catcttcggc gggcggggcc 240  
 aagctgggac atggggaaag gaacttgggtg cggaggctta tgactgcaac aacat 295

<210> 663  
 <211> 247  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 663

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 ggagagtgc ctcctccta tgaagaagga ctacaagctg gctaattctt tctgctggga 180  
 ggaggaagcg gatgccatgg aggagaaggc gggagtgcct gatgagtaag acgggcttct 240  
 ggggtcg 247

<210> 664  
 <211> 254  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations



<400> 664

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ctactttggc ggcctgaaat ctggtggtta tgcttatgtg attggagatc cagcaagacc 120

tggacagaag tggcacgtct tctacgccac tgagtacca gagcaaccaa tggttaacct 180

tgagatgtgc atgactggtc tggacaagaa gnnagcttgt ggtcttttca agactaatgc 240

tgatgggaac acaa 254

<210> 665  
 <211> 253  
 <212> DNA  
 <213> Zea mays

<400> 665

gtttcagcta tgccagttat gaggttatgg gcttggatgc cactgctctg tcttatggtg 60

accttgtcaa gagggctcctt cggtgctttg gcccctcgga gttttccgtt gccgtgacca 120

tcttcggcgg gcgtggccat gccgggacat ggggaaaggc acttggtgca gaggtctatg 180

actgcaacaa catggtggag caggagctgc ctggaggcgg gctcctcgtg taccagagct 240

tctgtgctgc tga 253

<210> 666  
 <211> 248  
 <212> DNA  
 <213> Zea mays

<400> 666

ctgctgtgaa gtactcccgt gggacgttca tctttcctgg tgcacagcca gccccccaca 60

ggagcttctc tgaggaagtt gctgcactta accgctactt tggcggcctg aaatctgggtg 120

gtaatgctta tgtgattgga gatccagcaa gacctggaca gaagtggcac gtcttctacg 180

ccactgagta cccagagcaa ccaatggta accttgagat gtgcatgact ggtctggaca 240

agaagaaa 248

<210> 667  
 <211> 291  
 <212> DNA  
 <213> Zea mays

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agctatcggg	tttgagggct	atgagaagcg	ccttgagatc	acatttctctg	aggcacctgt	120
ctttgtggac	cctcatgggc	gtggtttgcn	tgccctctcc	agggccccaga	ttgactctgt	180
tctggatctt	gcacggtgca	caattgtgtc	tgagctctcc	aacaaggatt	cgatcatagt	240
ccttnctgan	tnagcttgtt	taactatcct	ctgaagatgt	catcaagact	g	291

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<223>      unsure at all n locations
<400>      668
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tgcttatgtg attggagatc cagcaagacc tggacagaag tggcacgact tctacgcaa	60
ngagtacca gagcaaccaa tggttaacct tgagatgtgc atgactggtc tggacaagaa	120
gaaagcttgt gtctttttca agactaatgc tgatgggaac acaacatgtg ccaaggaaat	180
gacaaagctc tctggcatct ctgaaatcat ccccgagatg gagatctgcg attttgactt	240
cgaaccc	247

```
<223>      unsure at all n locations
<400>      669
```

246

ctgacacttt gattctgacc aatct

445

<210> 670

<211> 276

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 670

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tcanctatcg ggtttgaggg ctatgagaag cgccttgaga tcacattctc tgaggcacct 120  
gtcttgtgga ccctcatggg cgtgggttgn gtgcnctctc cagggnccag attgactctg 180  
ttctggatct tgcacggtgc acaatgtgtc cgagctctcc aacaaggatt tcgactcana 240  
tgtcctcctc tgagtcaagc ntgtntatct atccnc 276

<210> 671

<211> 283

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 671

tctaaggggtg gcaagaagtc tagcagtagt cgttccatga tgtatgaagc tccccttggc 60  
tacagcattg aggacgttcg acctgccgga gggcgaagaa gttccagtct gctgcttact 120  
ccaactgcgc aaagaagcca tcctgatatc ccttttggn tctcgttct agtagtttag 180  
gatttctttt ctgacacttc gnttcttacc aatccccctg gcctgctgct ttcctgacaa 240  
tcgaccagtt cccagtcctt gtcctctgca gtcctccctc ctc 283

<210> 672

<211> 284

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 672

gacactttga ttctgncca atctctctgg cctgctgctt cctgataatc tnnccagttt 60  
ccccagtcct gtccttnga gtcctccct ccctctccag cattgtgttc tgattcacct 120

gctccaatgg ctgttctttc tgctgctgat gttccccggt ctcagctatc gggtttgagg 180  
gctatgagaa ggcgcttgag atcacattct ctgaggcacc tgtctttgtg gaccctcatg 240  
ggcgtgggtt ggcgtgccctc tcaagggccc agattgactc tggt 284

<210> 673  
<211> 443  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 673

ggaggaagcg gatgccatgg angagantgc gggagtgcctt gatgagtaag acggacnggn 60  
gaggtgcgat ttgcttctga gttggttatt ttatatcgtc gcaatttcgt ggttgctggtt 120  
tggttattct gngaagcanc caagccaggc tattgntatg aaaatttgtc gtntgtaagc 180  
atgtgaactt ncgatgttgc cacatgctgg atcagtctga ataagtaagt atgcagctct 240  
aggtggtcag ntngntntac cacaatgagc atgaactgta tggagaaata tntgtgaacc 300  
cattttggnt atgaattaca annngctttt tngaaaaaan aatactggcg gnntntgttc 360  
aanaaatggt tttagacttt nnccttngta tcttttttga agaaccggtc taattgacgc 420  
ttaaattcnc atggagtggg naa 443

<210> 674  
<211> 254  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 674

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gtgcagaggt ctatgactgc aacaacatgg tggagcagga gctgcctgga ggcgggctcc 120  
tcgtgtacca gagcttctgt gctgctgaag acgctgttgc tacctcgccc aaatctgttt 180  
tccactgctt tgacggcgag aacgtggaga gtgctcctcc tcctatgaag aaggatacaa 240  
gctggctaatt cttc 254

<210> 675  
<211> 272  
<212> DNA

<213> Zea mays

<400> 675

ctgaagtctg gtggcaatgc ttatgtgatt ggagatgcag caagaccagg acagaagtgg 60  
cacatctact acgccactga gtaccagag caaccaatgg tcaaccttga gatgtgcatg 120  
actggtctgg acacgaagaa agcttcagtc ttcttcaaga ctaatgctga tggcaacaca 180  
acatgtgcca aggaaatgac gaagctctct ggtatctctg aaattatccc tgagatggag 240  
atctgtgatt ttgacttcga accctgcggc ta 272

<210> 676

<211> 240

<212> DNA

<213> Zea mays

<400> 676

atccagcaag acctggacag aagtggcacg tcttctacgc cactgagtac ccagagcaac 60  
caatggtaa ccttgagatg tgcatgactg gtctggacaa gaagaaagct tgtgtctttt 120  
tcaagactaa tgctgatggg aacacaacat gtgccaagga aatgacaaag ctctctggca 180  
tctctgaaat catccccgag atggagatct gcgattttga cttcgaacct tgtggctact 240

<210> 677

<211> 243

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 677

gctgctgtga agtactcccg tgggacgttc atctttcctg gcgcacagcc agccccccac 60  
aggagcttct ctgaggaagt tgctgcactt aaccgctact ttggcggcct ganatctggg 120  
ggtaatgctt atgtgattgg agatccagca agacctggac agaagtggca cgtcttctac 180  
gccactgagt acccagagca accaatgggt aaccttgaga tgtgcatgac tgggtctggac 240  
aag 243

<210> 678

<211> 243

<212> DNA

<213> Zea mays

<223>        unsure at all n locations  
<400>        678

```
ggtgaccttg tcaagagggg cctccggtgc tttngcccct cagagttttc cgttgccgtg   60
accatcttcg gcgggcggtg ccatgccggg acatggggaa aggcacttgg tgcagaggtc  120
tatgactgca acaacatggg ggagcaggag ctgcctggag gcgggctcct cgtgtaccag  180
agcttctgtg ctgctgaaga cgctgttgct acctgcccc aatctgtttt ccactgcttt  240
gac                                                                    243
```

<210>        679  
<211>        251  
<212>        DNA  
<213>        Zea mays

```
<400>        679
ggggtttcac acatagcttc gtcgatttga atttgatgta ctaatggagt ctaaggggtg   60
caaaaagtct agcagtagtc gttctatgat gtatgaagct ccccttggtt acagcattga  120
ggacgttcga cctgccggag ggtgaagaag ttccagtctg ctgcttactc caactgcgcg   180
aagaagccat cctgatatcc cttttggctt cctcattcta gtagtttagg atttcttttc  240
tgacactttg a                                                                    251
```

<210>        680  
<211>        268  
<212>        DNA  
<213>        Zea mays

```
<400>        680
cacaattcca aggatcctag agcttgetga agagctgtct atgcctcttg ctgctgtgaa   60
gtactcccgc gggacgttca tctttcctgg cgcacagcca gccccccacc ggagcttctc  120
cgaggaagtt gctgtactta accgatactt tgggggcctg aagtctggtg gcaatgctta  180
tgtgattgga gatgcagcaa gaccaggaca gaagtggcac atctactacg ccactgagta  240
cccagagcaa ccaatgttca accttgag                                                                    268
```

<210>        681  
<211>        249  
<212>        DNA

<213> Zea mays

<223> unsure at all n locations

<400> 681

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atccccgaga tggagatctg cgattttgac tttgaaccct gtggctactc catgaatgcg 120

atccatggct ctgcattctc cacaatccat gtgacgcccg aggacggttt cagcnatgcc 180

agttatgagg ttatgggctt ggatgccact gctctgtctt atgggtgacct tgtcaagagg 240

gtccttcgg 249

<210> 682

<211> 241

<212> DNA

<213> Zea mays

<400> 682

gccacttgct gctgtgaagt actcccgtag gacgttcac tttcctggtag cacagccagc 60

ccccacagg agcttctctg aggaagttgc tgcacttaac cgctactttg gcggcctgaa 120

atctgggtggt aatgcttatg tgattggaga tccagcaaga cctggacaga agtggcacgt 180

cttctacgcc actgagtacc cagagcaacc aatgggtaac cttgagatgt gcatgactgg 240

t 241

<210> 683

<211> 268

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 683

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tctggcatct ctgaaataca tccccgagat ggagatctgc gattttgact tcgaaccctg 120

tggctactcc atgaatgcga tccatggctc tgcattctcc acaatccatg tgacgcccga 180

ggacggtttc agctacgcca gttacgaggt tatgggctnt anttgccatg ctctgtotta 240

tggtgacctt gtcaagaggt cctccggt 268

<210> 684

<211> 264  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 684

tgttttccac tgctttgacg gcgagaacgt ggagagtgtc cctcctccta tgaagaagga 60  
 ctacaaacta gctaattcttc tctgctgnnn ggaggaagcg gatgccatgg aggagaaggc 120  
 gggagtgtct gatgagtaag acgggcttct ggtgtcgatt tgcttctgag ttgtttatct 180  
 tatatcgctg cnatttcgtg gttgtcgttt ggttatctgt gaagcagcca agccaggcta 240  
 ttgttatgaa aattgtcgtc tgta 264

<210> 685  
 <211> 268  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 685

agcaagacct gggacagaag tggcacnntc ttctacgccca ctgagtaccc agagcaacca 60  
 atggttaacc ttgagatgtg catgactggt ctggacaaga agaaagcttg tgtctttttc 120  
 aagactaatg ctgatgggaa cacaacatgt gccaaaggant ganaancctc tctggcatct 180  
 ctgaaatcat ccccgagatg gagatctgag attttgactt cgaaccctgt ggctactcca 240  
 tgaatgcgat ccatggctct gcattctc 268

<210> 686  
 <211> 332  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 686

ttttccctgc tttgacggcg agcaacgtgg anagtgtctc ncctcctatg aagaangnct 60  
 acanactggc taatcttcta tncnnggacg nnganncgga tgcccatggn aggagaaggc 120  
 gggagtgtct gatgagtaan acgggcttct ggggtcgatt tgcttctgag ttgtttatct 180  
 tatatcgctg caatttcgtg gttgtcgttt ngttattctg tgaagcagcc aagccaagct 240  
 attgttatga nntttgtcgt ctgtaagcat gtgacttccg ccgttgccac atgctggatc 300



agtctgaata gtaagtingca gctctagtgg nc

332

<210> 687

<211> 237

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 687

gaagcggatg ccatggngga gaaggcggga gtgcttgatg agtaagacgg gcttctgggg 60

tcgatttgct tctgagttgt ntatattata tcgtcgcaat ttcgtggttg tcgtttggtt 120

attctgtgaa gcagccaagc caggctattg ttatgaaaat ttgtcgtctg taagcatgtg 180

aacttccgat gttgccacat gctggatcag tctgaataag taagtatgca gctctag 237

<210> 688

<211> 286

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 688

cagcattgtg ttctgattca cctgnctcca atggctgttg ctttctgctg ctgatgcttc 60

cccggctctca gctatcgggt ttgagggtta tgagaagcgc cttgagatca cattctctga 120

ggcacctgtc tttgtggacc ctcatggcgt ggtttgcgtg ccctctccag ggcccagatt 180

gactctgttc tggatcttgc acggtgcaca atgtgtccga gctctccaac aaggatttcg 240

actcatagtc ctctctgagt caagcttggt tatctatctc tgaaga 286

<210> 689

<211> 300

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 689

gncgtgcnan ctcggaatc aggggtttca cacatagctt cgtcgatttg aatttnatgt 60

actaatggag tctaagggtg gcaaaaagtc tagcagtagt cgttctatga tgtatgangc 120

tccccttggc tacagnttg aggacgttcg acctgccgga cggatgaagaa gttccagtct 180

gctgcttact ccaagtgcgc gangaagcca tcctgatatc cttttggctt ccctcattct 240  
 agtagtttan gatttcnttt ctgacacttt gattntgacc antctctnct gggcttgntg 300

<210> 690  
 <211> 278  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 690

gtgattggag gccgccaaag tagcggntaa gtgcagcaac ttcctnagag aagctcctgt 60  
 ggggggctgg ctgtgcacca ggaaagatga acgtcccang ggagtacttc acagcagcna 120  
 gtggcataga cagctcttca gcaagctcaa ggattcttgg aatggtgagc aggacttggt 180  
 agtgccacag gtcttgatga caatcttcag aggatagatn aacaagcttg actcatagag 240  
 gacatatgat ccgaaatcct tgtggagagc tcgacaca 278

<210> 691  
 <211> 525  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 691

gnnaantgtt ttgtaanggg ggggnnaang nnaagctttt accggtccgg aattcccggg 60  
 tcgaccacag cgtccgcaaa gaattccctc ccctagccgc cgccgccgcc gctcgtctcc 120  
 ctgagaggtg ccgggaccga ggaactggcc gagtactagg tagagaatcg gtttttcttg 180  
 tctcagcccg gggctctgctg cgtctgggtg tggtgaaggg gagaaattcg tgagatctgt 240  
 tccggatcag gcgtgcgagc tcgggaatca ggggtttcac acatagcttc gtcgatttga 300  
 atttgatgta ctaatggagt ctaagggtgg caaaaagtct agcagtagtc gttctatgat 360  
 gtatgaagct ccccttggct acagcattga ggacgttcga cctgccggag gcgtgaagaa 420  
 gttccagtct gctgcttact ccaactgcgc gaagaacat cctgatatcc cttttggctt 480  
 nctcattcta gtagtttaag gattcttttn tgacactttg aattt 525

<210> 692  
 <211> 242  
 <212> DNA

<213> Zea mays  
 <400> 692

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gcatgactgg tctggacaag aagaaagctt gtgtcttttt caagactaat gctgatggga 60
acacaacatg tgccaaggaa atgacaaagc tctctggcat ctctgaaatc atccccgaga 120
tggagatctg cgattttgac ttcgaaccct gtggctactc catgaatgcg atccatggct 180
ctgcattttc aaaatccatg tgacgcccga ggacggtttc agctacgcca gttacgaggt 240
ta 242

```

<210> 693  
 <211> 238  
 <212> DNA  
 <213> Zea mays

<400> 693

```

caaatcttat tcataaacia aatgggttca cagatat ttc tccatacgta catgctcatt 60
gtggtagacg cagctgacca cctagagctg catacttact tattcagact gatccagcat 120
gtggcaacgt cggaagtta catgcttaca gacgacaaat tttcataaca atagcttggc 180
ttggctgctt cacagaataa ccaaacgaca accacgaaat tgcgacgata taaaataa 238

```

<210> 694  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 694

```

cgctactttg gcggcctgaa atctgggtgt aatgcttatg tgattggagn tccagcaaga 60
cctggacaga ngtaggcacgt cttctacgcc actgagtacc cagagcaacc aatggttaac 120
cttganatgn gcatgactgg tctggacnag nagaangctt gtgtcttttt caagantaat 180
gctgatgggn acacnacatg tgccaaggga atgacnaagc tcnctggcat ctcnгааagc 240
ntnccccnga tggannntgc gnt 263

```

<210> 695  
 <211> 245  
 <212> DNA  
 <213> Zea mays

<400> 695

atgccactgc tctgtcttat ggtgaccttg tcaagagggt ccttcggtgc tttggcccct 60  
cggagttttc cgttgccgtg accatcttcg gcgggcgtgg ccatgccggg acatggggaa 120  
aggcacttgg tgcagaggtc tatgactgca acaacatggg ggagcaggag ctgcctggag 180  
gcgggctcct cgtgtaccag agcttctgtg ctgctgaaga cgctgttgct actcgcccaa 240  
atctg 245

<210> 696

<211> 229

<212> DNA

<213> Zea mays

<400> 696

gctgctgatg cttccccggt ctcagctatc gggtttgagg gctatgagaa gcgccttgag 60  
atcacattct ctgaggcacc tgtctttgtg gaccctcatg ggcggtggtt gcgtgccctc 120  
tccagggccc agattgactc tggtctggat cttgcacggt gcacaattgt gtctgagctc 180  
tccaacaagg atttcgactc atatgtcctt tctgagtcaa gcttgttta 229

<210> 697

<211> 228

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 697

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actgcaacaa catggtggag caggagctgc ctggaggcgg gctcctcgtg taccagagct 120  
tctgtgctgc tgaagacgct gttgctacct cgcccaaadc tgttttccac tgctttgacg 180  
gcgagaacgt ggagagtgc cctcctccta tgaagaagga ctacangc 228

<210> 698

<211> 227

<212> DNA

<213> Zea mays

<400> 698

caacatggtg gagcaggagc tgcctggagg cgggctcctc gtgtaccaga gcttctgtgc 60  
tgctgaagac gctgttgcta cctcgcccaa atctgttttc cactgctttg acggcgagaa 120  
cgtggagagt gctcctcctc ctatgaagaa ggactacaag ctggctaate ttctctgctg 180  
ggaggaggaa gcggatgcca tggaggagaa ggcgggagtg cttgatg 227

<210> 699  
<211> 275  
<212> DNA  
<213> Zea mays

<400> 699

gtgatthttga cttcgaaccc tgcggctact ccatgaatgc aatccatggc tctgcgttct 60  
ccacgatcca tgtgacgcct gaggatgggt tcagctacgc cagttatgag gttatgggct 120  
tggatgccac tgccctgtct tacggtgacc ttgtcaagag ggtccttggg tgcttcggcc 180  
cctcgaatt ttctgtcgcc gtgaccatct tcggcgggcg gggccaagct gggacatggg 240  
gaaaggaatt ggtgcggagg cttatgactg caaca 275

<210> 700  
<211> 497  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 700

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gggtcgaccc acgcgtccgc caaagaattc cctcccctac cgccgtcgcc gctcgtctcc 120  
ctgagaggtg ccgggaccga ggaactggcc gagttctagg tagagaatcg gttttgcttg 180  
tctcagcacg gggctctgctg cgtctgggtg tggatgaagg gagaaattcg tgagatctgt 240  
tccggatcag gcgtgcgagc tcgggaatca ggggtttcac acatagcttc gtcgatttga 300  
atthgatgta ctaatggagt ctaagggtg caaaaagtct agcagtagtc gttccatgat 360  
gtatgaagct ccccttggct acagcattga ggacgttcga cctgccggag gcgtgaagaa 420  
gttccagtct gctgcttact ccaactgcgc gaagaagcca tcctgatatc ctttttggct 480  
tcctcattct agtagtt 497

<210> 701  
 <211> 244  
 <212> DNA  
 <213> Zea mays  
  
 <400> 701  
  
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 tctaagggtg gcaaaaagtc tagcagtagt cgttctatga tgtatgaagc tccccttggc 120  
 tacagcattg aggacgttcg acctgccgga ggggtgaagaa gttccagtct gctgcttact 180  
 ccaactgcgc gaagaagcca tcctgatata ccttttggct tcctcattct agtagtttag 240  
 gatt 244

<210> 702  
 <211> 292  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 702  
  
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 tccccttggc tacagcattg aggacgttcg acctgccgga gggtgaaaga anttccagtc 180  
 tgctgcttac tccaactgcg cgaagaagcc atcctgatan ccctttinggc ttctcatttn 240  
 cnagtagttn aggttccttt tctgacattt gattctgacc aatctcgng gg 292

<210> 703  
 <211> 225  
 <212> DNA  
 <213> Zea mays  
  
 <400> 703  
  
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 ttctggatct tgcacggtgc acaattgtgt ccgagctctc caacaaggat ttcgactcat 180  
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<210> 704

<211> 289  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 704

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 gtttgagggc tatgagaagc gccttgagat cacattctct ganncacctg tctttgtgga 180  
 ccccatggc agcggtttgc gtgccctctc cagggtcccag attgactctg ttctggatct 240  
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<210> 705  
 <211> 257  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 705

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 tgcacttaac cgctactttg gcgggctgaa atctggtggt aatgcttatg tgattggaga 180  
 tccagcaaga acctggacag aagtggnacg tcttctaacg caactgagta ccnagagcaa 240  
 ccaatggtta ccttgag 257

<210> 706  
 <211> 221  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 706

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 ctcattctag tagtttagga tttcttttct gacactttga ttctgaccaa tctctctggc 180  
 ctgctgcttc ctgataatcg accagttccc cagtcttgct c 221

<210> 707  
 <211> 534  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 707  
  
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 gtctccctga gaggtgccgg gancgaggaa ctggccgagt tctaggtaga gaatcggttt 180  
 tgcttgcttc agcacggggc ctgctgcgtc tgggtggtgg gaaggggaga aattcgtgag 240  
 atctgttccg gatcaggcgt gcgagctcgg gaatcagggg ttccacacat agcttcgtcg 300  
 atttgaattt gatgtactaa tggagtctaa ggggtggcaa aagtctagca gtagtcgttc 360  
 catgatgtat gaagctcccc ttggctacag cattgaggac gttcgacctg ccggaggcgt 420  
 gaagaagttc cagtcttgct tgcttactcc aactgcgcga agaagccatc ctgatatccc 480  
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<210> 708  
 <211> 253  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 708  
  
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 attcacctgc tccaatggct gttctttctg ctgctgatgc ttccccggtc tcagctatcg 180  
 ggnttgaggg ctatgagaag cgcctgagat cacattctct gaggnactgt cttngtggn 240  
 cncanggcgg ggg 253

<210> 709  
 <211> 301  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 709



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 ctgcgcaaag aagccatcct gatatccctt ttggctttct cgttctagta gtttaggatt 120  
 tcttttctga cacttcgatt cttaccaatc cccctggcct gctgctttcc tgacaatcga 180  
 ccagttcccc agtcttgctc cctgcagtc tccctcctcc atctccagcg ttgtgttctg 240  
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 g 301

<210> 710  
 <211> 261  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 710

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 ctttgggggc ctgaagtctg gtggcaatgc ttatgtgatt gnagatgcag caagaccagg 180  
 acagaantng cacatctact acgccactga gtaccagag caancaatgg tcaaccttga 240  
 gatgtaaana nnggnttttn c 261

<210> 711  
 <211> 252  
 <212> DNA  
 <213> Zea mays  
 <400> 711

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 tggatgccac tgccctgtct tacggtgacc ttgtcaagag ggtccttggg tgcttcggcc 180  
 cctcggaatt ttctgtcgcc gtgaccatct tcggcgggcg gggccaagct gggacatggg 240  
 gaaaggaatt gg 252

<210> 712  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<400> 712

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ttgagggcta tgagaagcgc cttgagatca cattctctga ggcacctgtc tttgtggacc 180  
cccatggcag cggtttgctg gccctctcca ggtcccagat tgactctggt ctggatcttg 240  
cacggtgcac gatcgtgtcc gag 263

<210> 713

<211> 266

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 713

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caggctattg ttatgaaaat tgtcgtctgt aagcatgtga acttccgatg ttgccacatg 180  
ctggancatc tgaataagta agtangnngc tctaggtagt cagctgcgtc tncccaaat 240  
gagcatgaag tatggagaaa tatctg 266

<210> 714

<211> 242

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 714

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ctccacaatc catgtgacgc ccgaggacgg ttccagctat gccagttatg aggttatggg 120  
cttggatgcc actgctctgt cttatggtga ctttgtcaag agggctcctcg gtgctttggc 180  
ccctcggagt tttccgttgc cgtgaccatc ttccggcgggc gtggccagcc gggaacatgg 240  
ga 242

<210> 715

<211> 257

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 715  
  
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 gttctggatc ttgcacggtg cacgatcgtg tccgagctct ccaacaagga ttttgantcc 180  
 tatgttctct ccgagtcaag cttgttcacg tatcctctga agattgtcat caagacctgt 240  
 ggcataccaa gctcctg 257

<210> 716  
 <211> 326  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 716  
  
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 tggtcnggat cttgcanggt gnacaattgn gnccgagctc tccaacaagg atttcgactc 180  
 natgtcctct ctgagtcaan ttgnttatct atcctctgaa gattgtcatc aagacctgtg 240  
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 tgctnctgtg antatccgtg ggagtc 326

<210> 717  
 <211> 496  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 717  
  
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 gagagggtgcc gggaccgagg atttggccga gttctaggta gagaatcggg tttacttgtc 180  
 tcagcccggg gtctgctgcg tctgggtgtg gtgaagggga gaaattcgtg agatctgttc 240

cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt cgatttgaat 300  
 ttgatgtact aatggagtct aagggtggca aaaagtctag cagtagtcgt tctatgatgt 360  
 atgaagctcc ccttggtctac agcattgagg acgttcgacc tgccggaggc gtgaagaagt 420  
 tccagtctgc tgcttactcc aactgcgcga agaaccatcc tgatatccct tttggcttct 480  
 cattctaagt anttta 496

<210> 718  
 <211> 237  
 <212> DNA  
 <213> Zea mays

<400> 718

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 atgaaaattt gtcgtctgta agcatgtgaa cttccgacgt tgccacatgc tggatcagtc 120  
 tgaataagta agtatgcagc tctaggtggt cagctgcgtc taccacaatg agcatgtacg 180  
 tatggagaaa tatctgtgaa cccattttgt ttatgaataa gatttggttt ttcgagt 237

<210> 719  
 <211> 493  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 719

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 ngaaggggag aaattcgtga gatctgttcc ggatcaggcg tncgagctcg ggaatcaggg 180  
 gtttcacaca tagcttcgtc gatttgaatt tgatgtacta atggagtcta aggggtggcaa 240  
 aaagtctagc agtagtcgtt ccatgatgta tgaagctccc cttggctaca gcattgagga 300  
 cgttcgacct gccggaggcg tgaagaantt ccagtctgct gcttactcca actgcgcgaa 360  
 aaaaccatcc tgatatccct tttggctttc ctcaatctaa tantttaagg atttcttttt 420  
 ttgacacttt taattcttac caaatntttt ttggcctggn tgctttcctg anaaatngac 480  
 canttcccca nnt 493

<210> 720  
 <211> 264  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 720  
  
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 gatgagtaag acgggcttct ggtgtcgatt tgcttctgag ttgtttatatt tatatcgctg 180  
 caatttcgtg gttgtcgttt gggtatccgt gaagcaccca gccagcnaat gttagnaaat 240  
 ttgccgccgt aaccagggaa cttc 264

<210> 721  
 <211> 272  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 721  
  
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 gtactaatgg agtctaaggg tggcaaaaag tctagcagta gtcgnntcca tgatgtatga 120  
 agtccccctt ggctacagca ttgaggacgt tcgacctgcc ggagggtgaa agangttcca 180  
 gtengcngct tactccaact gcgnnaagaa gccattcct gatatccctt tnggcttccn 240  
 cattctagta ggtaggatt ncttttctna ca 272

<210> 722  
 <211> 487  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 722  
  
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 nnnnnnnnnn nnncaaagaa ttccctcccc tagccgccgc cgccgctcgt ctccctgaga 120  
 ggtgccggga ccgaggaact ggccgagttc taggtagaga atcgggtttg cttgtctcag 180  
 cacgggggtct gctgcgtctg gtgggtgtga aggggagaaa ttcgtgagat ctgttccgga 240

tcaggcgtgc gagctcggga atcaggggtt tcacacatag cttcgtcgat ttgaatttga 300  
 tgtactaatg gagtctaagg gtggcaaaaa gtctagcagt agtcgttcca tgatgtatga 360  
 agctccccctt ggctacagca ttgaggacgt tcgacctgcc gggaggcgtg aagaagttcc 420  
 agtctgctgc ttactccaac tgcgcgaaag aagccatcct gatatccctt ttggcttcct 480  
 caatcta 487

<210> 723  
 <211> 271  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 723

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 tcactcacca aggaggaagc ggatgccatg gaggagaagg cgggagtgtc tgatgagtaa 120  
 gacgggcttc tgggtgtcgat ttgcttctga gttgtttatt ttatatcgtc gcaatttcgt 180  
 gggtgtcggt tgggtattct gtgaagcagc caagccaggc tattgttatg aaaatttgtc 240  
 gtctgtaagc atgtgaactt ccgatgttgc c 271

<210> 724  
 <211> 214  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 724

ctctctggca tctctgaaat catccccgag atggagatct gcgattttga ctttgaaccc 60  
 tgtggctact ccatgaatgc gatccatggc tctgcattct ccacaatcca tgtgacgccc 120  
 gaggacgggt tcagctatgc cagttatgag gttatgggct tggatgccac tgctctgtct 180  
 tatggtgacc ttgtcaagag ggtcntcggt gttg 214

<210> 725  
 <211> 260  
 <212> DNA  
 <213> Zea mays

<400> 725

caatcgacca gttccccagt cttgctccct gcagtcctcc ctctccatc tccagcgttg 60  
 tgttctgact cacctgcacc aatggctggt ctttctgctg ctgggtgctcc cccggcctca 120  
 gctatcgggt ttgagggtta tgagaagcgc cttgagatca cattctctga ggcacctgtc 180  
 tttgtggacc cccatggcag cggtttgcgt gccctctcca ggtcccagat tgactctggt 240  
 ctggatcttg cacggtgcac 260

<210> 726

<211> 536

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 726

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 tctccctgag aggtgccggg ncnggggaac tggccgagta ctaggtagag aatcggtttt 180  
 tcttgctca gcccggggtc tgctgcgtct ggtggtggtg aaggggagaa attcgtgaga 240  
 tctgttccgg atcaggcgtg cgagctcggg aatcanggggt ttcacacata gttcgtcga 300  
 tttgaatttg atgtactaat ggagtctaag ggtggcaaaa agtctagcag tagtcgttct 360  
 atgatgtatg aagctncct tggctacagc attgaggacc gtctgacctg ccggangcgt 420  
 gaagaagttc cagtctnctg cttacttcaa ctgccnaag aagccatcct natanncctt 480  
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<210> 727

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 727

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 gcgtctggtg gtggtgaagg ggagaaattc gtgagatctg ttccggatca ggcgtgcgag 180  
 ctcggaatc aggggtttca cacatagctt cgtcgatttg aatttgatgt actaatggag 240

tctaaggggtg gcaaaaagtc tagcagtagt cgttctatga tgtatgaagc tccccttggc 300  
 tacagcattg angacgttcg acctgccnga ngcgtgaaga aattncaggt ctgctgctta 360  
 ctccaactgc gccaaaaaac catnctgata ttccttttgg ctttcctaatt ctagtaagtt 420  
 aaggatttct tttctgacac ttttgaatct gancca 456

<210> 728  
 <211> 196  
 <212> DNA  
 <213> Zea mays

<400> 728

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 ggttattctg tgaagcagcc aagccaggct attgttatga aaatttgcg tctgtaagca 120  
 tgtgaacttc cgatgttgcc acatgctgga tcagtctgaa taagtaagta tgcagctcta 180  
 ggtggtcagc tgcgctc 196

<210> 729  
 <211> 218  
 <212> DNA  
 <213> Zea mays

<400> 729

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 ttttgactcc tatgttctct ccgagtcaag cttgttcac taccctctga agattgtcat 120  
 caagacctgt ggcaactacca agctcctgct cacaattcca aggatcctag agcttgctga 180  
 agagctgtct atgcctcttg ctgctgtgaa gtactccc 218

<210> 730  
 <211> 261  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 730

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 naccgnctct gtcttatggt gaccttgctca agagggctct ccggtgcttt ggcccctcga 120  
 gttttccgtt gccgtgacca tcttcggcgg gcgtggccat gccgggacat ggggaaagca 180



cttgggtgcag aggtctatga ctgcaacaac atggtggagc aggagctgcc tggagggggc 240  
 tcctcgtgta ccagagctna c 261

<210> 731  
 <211> 306  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 731

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 gtggcaaaaa gtctagcagt agtcgtctat gatgtatgaa gctcccccttg gctacagcat 120  
 tgaggacggtt cgacctgccg gagngtgaag aagttccagt ctgctgctta ctccaactgc 180  
 gcgaagaagc catcctgata tcctttggct tcctcatcta gtagtttagg attctttctg 240  
 acatttgatt ctgacaatct cctggctgtg ttctgataac gacaatcnca tctgtcttga 300  
 tctcct 306

<210> 732  
 <211> 295  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 732

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 aagaagccat cctgatatcc cttttggctt cctcgttcta gtagtttagg atttcttttc 120  
 tgacacttcg attcttacca atccccctgg cctgcngctt tcctgataat cgaccagttc 180  
 ccagtccttg ctccctgcag tcctccctcc tccatctcca gcgttggtgtt ctgactcacc 240  
 tgcaccaatg gctgttcttt ctgctgctgg tgctccccgg gctnaagtat ngggt 295

<210> 733  
 <211> 532  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 733

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 gattggagat gcagcaagaa ccagggacag aagtggcaca tctactacgc cactgagacc 180  
 cagagcaacc aatgggtcaac cttgagatgt gcatgactgg tctggacacg aagaaacttc 240  
 agtcttcttc aagactaatg ctgatggcaa cacaacatgt gccaaaggaaa tgacgagctc 300  
 tctggtaanc tctgaaatta tccctgagat ggagatctgt gattttgact tcgaacctg 360  
 cggctactcc catgaatgca atccatgggc tctgcgttct ccacgattca tgtgacgcct 420  
 gaggatgggt tcaagctacg ccaagttatg aagttatggg gcntggatgc catggncctg 480  
 ttctaaaggn gaaccttttc aaaaaggggc ccttnggggg cttccgcccc cc 532

<210> 734  
 <211> 269  
 <212> DNA  
 <213> Zea mays

<400> 734

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 ctgctgctgg tgctcccccg gcctcagcta tcggggttga gggctatgag aagcgccttg 180  
 agatcacatt ctctgaggca cctgtctttg tggaccccca tggcagcggg ttgcgtgccc 240  
 tctccaggtc ccagattgac tctgttctg 269

<210> 735  
 <211> 231  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 735

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 cggaggggtga agaagttcca gtctgctgct tactccaact gcgcgaagaa gccatcctga 180  
 tatccctttt ggcttccgca tnnaggagtt agggtttcta ccnncnngn g 231

<210> 736  
 <211> 220  
 <212> DNA  
 <213> Zea mays

<400> 736

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 ctctaggtgg tcagctgcgt ctaccacaat gagcatgaac gtatggagaa atatctgtga 180  
 acccattttg tttatgaata agatttgttt ttttcgagtt 220

<210> 737  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 737

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 ccgaggaact ggccgagtag taggtagaga atcggttttt cttgtctcag cccgggggtct 120  
 gctgcgtctg gtggtggtga aggggagaaa ttcgtgagat ctgttccgga tcaggcgtgc 180  
 gagctcggga atcagggggtt tcacacatag cttcgtcgat ttgaatttga tgtactaatg 240  
 gagtctaagg gtggcaaaaa gtctagcagt agtcgttcta tgatgtatga agctcccttg 300  
 gctacagcat tgaggacgtt cgacctgccg gaggcntnaa gaagttccag tctgctgctt 360  
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 ngattctttt ctgacctttg at 442

<210> 738  
 <211> 527  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 738

gnggnggggtg gtnanngnnn tcnannaana atctnctacc ggccccggaat tccccgggtcg 60  
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 gtgccgggac cgaggatttg gncgagttct aggtagagaa tcggttttac ttgtctcagc 180

ccgggggtctg ctgcgtctgg tgggtggtgaa ggggagaaat tcgtgagatc tgttccggat 240  
caggcgtgcg agctcgggaa tcaggggttt cacacatagc ttcgtcgatt tgaatttgat 300  
gtactaatgg agtctaaggg tggcaaaaag tctagcagta gtcgttctat gatgtatgaa 360  
gctncccttg gctacagcat tgaagacgtt cgacctgccn gaagcctgaa aaagttcaat 420  
ctgntgctta ctccaactgc gccaaagaaa ccattctgat atcccttttg gcttctcat 480  
tctaagtaag tttaaggatt cttttctgac actttgattc ttancaa 527

<210> 739

<211> 249

<212> DNA

<213> Zea mays

<400> 739

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ccaagctggg acatggggaa aggaacttgg tgcggaggct tatgactgca acaacatggg 120  
cgagcaggag ctgcctggag gtgggatcct catctaccag agcttctgtg ctgctgaaga 180  
cgccgttgct agctcgccca aatccgttct tcgctgcttt gatggcgaga atgcagcact 240  
tttgcaag 249

<210> 740

<211> 514

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 740

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accacgcgt ccggttgcca aagaattccc tcccctagcc gccgccgccg ctgctctccc 120  
tgagaggtgc cgggaccgag gatttgccg agttctaggt agagaatcgg ttttacttgt 180  
ctcagcccgg ggtctgctgc gtctggtggg ggtgaagggg agaaattcgt gagatctgtt 240  
ccgatcagg cgtgcgagct cgggaatcag gggtttcaca catagcttcg tcgatttgaa 300  
tttgatgtac taatggagtc taaggggtggc aaaaagtcta gcagtagtcg ttctatgatg 360  
tatgaagctc cccttggtta cagcattgag gacgttcgac ctgccggagg cgtgaagaag 420

ttccagtctg ctgcttactc caactgcgcg aagaaccatc ctgatatccc ttttggcttn 480  
ctcattctag taanttaaga attcntttnt tgac 514

<210> 741  
<211> 298  
<212> DNA  
<213> Zea mays

<400> 741

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tcctgacaat cgaccagttc ccagctcttg ctccctgcag tcctccctcc tccatctcca 120  
gcgttggtgtt ctgactcacc tgcaccaatg gctgttcttt ctgctgctgg tgcctccccg 180  
gcctcagcta tcggggttga gggctatgag aagcgccttg agatcacatt ctctgaggca 240  
cctgtctttg tggaccccat ggcagcgggtt tgcgtgccct ctccaggtcc cagattga 298

<210> 742  
<211> 217  
<212> DNA  
<213> Zea mays

<400> 742

ttttttttta actcgaaaaa aacaaatctt attcataaac aaaatgggtt cacagatatt 60  
tctccatacg ttcattgtca ttgtggtaga cgcagctgac cacctagagc tgcatactta 120  
cttattcaga ctgatccagc atgtggcaac atcggaagtt cacatgctta cagacgacaa 180  
attttcataa caatagcctg gcttggctgc ttcacag 217

<210> 743  
<211> 181  
<212> DNA  
<213> Zea mays

<400> 743

tgcgattttg acttcgaacc ctgtggctac tccatgaatg cgatccatgg ctctgcattc 60  
tccacaatcc atgtgacgcc cgaggacggg ttcagctacg ccagttacga gggttatgggc 120  
ttggatgcca ctgctctgtc ttatgggtgac cttgtcaaga gggtcctccg gtgctttggc 180  
c 181

<210> 744  
 <211> 373  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 744

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 ctgctgtctgg tgggtggtgaa ggggagaaat tcgtgagatc tgttccggat caggcgtgcg 180  
 agctcgggaa tcagggggttt cacacatagc ttcgtcgatt tgaatttgat gtactaatgg 240  
 agtctaaggg tggcaaaaag tctagcagta gtcgttctat gatgtatgaa gctccccttg 300  
 gctacagcat tgaggacgtt cgacctgccg gaggcgtgaa gaagttccag tctgctgctt 360  
 actccaactg cgc 373

<210> 745  
 <211> 281  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 745

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 ttccggatca ggcgtgagag gctcnggaat tcaggggttt cacacatagc ttcgtcgatn 120  
 tgaatttnat gtactaatgg agtctaaggg tngcaaaaag tctagcagta gtcgttctat 180  
 gatgtatgaa gctccccttg gctacagcat tgaggacgtt cgacctgccg gagngtgaa 240  
 gaagttccag tctgctgctt actccaactg cgcgaagang c 281

<210> 746  
 <211> 184  
 <212> DNA  
 <213> Zea mays

<400> 746

gtggcaaaaa gtctagcagt agtcgttcta tgatgtatga agtcccctt ggctacagca 60  
 ttgaggacgt tcgacctgcc ggagggtgaa gaagttccag tctgctgctt actccaactg 120

cgcgagaag ccacctgat atcccttttg gcttctcat tctagtagtt taggatttct 180  
tttc 184

<210> 747  
<211> 170  
<212> DNA  
<213> Zea mays

<400> 747

cagcaagacc tggacagaag tggcacgtct tctacgccac tgagtaccca gagcaaccaa 60  
tggttaacct tgagatgtgc atgactgggc tggacaagaa gaaagcttgt gtctttttca 120  
agactaatgc tgatgggaac acaacatgtg ccaaggaaat gacaaagctc 170

<210> 748  
<211> 441  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 748

attacntncc ctagccggcg tcgccgctcg tnttcctgag aggtgccggg accgangggn 60  
tggncgantt ctangtagag aatcggtttt actngtctca acccgngtc tgctgcgtct 120  
ggtggtggtg aangggagaa attcntgaga tctgtncgg atcaggcgng cgagctcggg 180  
aatcaggggt ttcacacata gcttcgtccg atttgaattt gatgtactan atggantcta 240  
anggtggcaa aaagtctanc attagtcgct ctatgatgta tgaanctccc ctnggctaca 300  
gcattgagga cgttcgacct gccggaggcg tgnanangtt ccagtctgat gcttactnca 360  
actgcgcgan ganccatcct gatatccctt ttggnntncct cattctagna cgtaggant 420  
tnttggtgac acttngattc t 441

<210> 749  
<211> 195  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 749

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ggttaacctt gagatgtgca tgactggctt ggacaagaag aaagcttctg tctttttcaa 120  
gactaangct gatgggnaca cagcatgtgc naaggaatga caaagctctc tggcatctct 180  
gagtcatccc cgagt 195

<210> 750  
<211> 463  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 750

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gccgccgccg ctcgtctccc tgagaggtgc cgggaccgag gatttggccg agttctaggt 120  
agagaatcgg ttttacttgt ctcagcccgg ggtctgctgc gtctgggtggg ggtgaagggg 180  
agaaattcgt gagatctgtt ccggatcagg cgtgcgagct cgggaatcag gggtttcaca 240  
catagcttcg tcgatttgaa tttgatgtac taatggagtc taagggtggc aaaaagtcta 300  
gcagtagtcg ttctatgatg tatgaagctc cccttggtta cagcattgag gacgttcgac 360  
ctgccggagg cgtgaagaaa ttccagtctg ctgcttactc nactgngcga agaaccatnc 420  
tgatatcctt ttnggtttct taatctaaga nnttangatt ctt 463

<210> 751  
<211> 292  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 751

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agctatcggg tttgagggct atgagaagcg ctttgagatc acattctctg aggcacctgt 120  
cttgtggacc tcatgggcgt ggtttgctg nccctctncn agggcccaga ttgaactctg 180  
tacnggatct tggcaggnng caaaattgtg tctggagctc tccaacaagg atttcgactc 240  
atatgtcctn tctgaagtna agcttgnta tcnnnnccag gaagatngac ca 292

<210> 752  
<211> 291  
<212> DNA



<213> Zea mays

<223> unsure at all n locations

<400> 752

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cacataatnt nactanttga atttgatgta ctaatggant ctaanggtgg caagaagtnc 120  
agcagtagtc gntccatgat gtatgaagct ccccttggtc acagcatnng aanncgttcg 180  
acctgccgga gnnccaagaa gttccagtct gctgcttact ccaactgcgc aaagaagcca 240  
tcctgatatc ccttttggtc tcctcgttct agtagtttag gatttctttt c 291

<210> 753

<211> 506

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 753

gtggggnnngn aatgttcgtt gccgtgccgg tccgaaaatc acgggtcgac ccacgcgtcc 60  
gaagaattcc ctcatagccg ccgccgccgc cgccgccgcc gctcatctcg ccgagagggtg 120  
acggggaccga ggaactcgcc gagttctaag atagagaatc gcttttcaca gcctgggggtc 180  
tgctgcgtag ggtggtgttg aaggggagaa gtttaagatc tgttccacag atcacgcgtg 240  
cgcgctcgcg aatcgggggt tccacacata gttcgtcgt tttgaatttg atgtactaat 300  
ggagtctaag ggtggcaaga agtctagcag tagtcgttcc atgatgtatg aagctcccct 360  
tggctacagc attgaggacg ttcgacctgc cgaggcgcc aagaagttcc aatctgctgc 420  
ttactccaac tggcgcaaag aaancatcct gaaaaccctt ttgnntcct ccttccaata 480  
atttaaggat tcctttccna aaacnt 506

<210> 754

<211> 275

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 754

ggatgtatga agctcccctt gggctacagc attgaggacg ttcgaacctg nccggancgt 60  
tgaagaagtt ccagtctggc tgnntacgnc caactgcgcc naagangcca tcctggatat 120

cccttttggc ttcttcattc tagnagttta ggattttcttt tctgacactt tgatgctgac 180  
 naatctctct ggcttgggtgc ttcttgataa tggaccagtt cccagtcttg ctctttgcat 240  
 cctcgctcct ccatctncag cattgtgtcc gattc 275

<210> 755  
 <211> 158  
 <212> DNA  
 <213> Zea mays

<400> 755

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 taagcatgtg aacttccgat gttgccacat gctggatcag tctgaataag taagtatgca 120  
 gctctaggtg gtcagctgcg tctaccacaa tgagcatg 158

<210> 756  
 <211> 165  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 756

cctccctcca tctccagcat tgtgttctga ttcacctgct ccaatggctg ttctttctgc 60  
 tgctgatgtc tccccggtct cagctatcgg gtttgagggc tatgagaagc gccttgagat 120  
 cacattctct gaggcacctg tctttgtnga ccctcattcn cntng 165

<210> 757  
 <211> 157  
 <212> DNA  
 <213> Zea mays

<400> 757

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 tgcgtgccct ctccagggcc cagattgact ctgttctgga tcttgcacgg tgcacaattg 120  
 tgtccgagct ctccaacaag gatttcgact catatgt 157

<210> 758  
 <211> 221  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 758

tgatgtcgca tgcacgcgta cgtaagctcg gaattcggct cgagngaaat gacaaagctc 60  
tctggcactc tgaaatcatc cccgagatgg agatctgcga ttttgacttc gaaccctgtg 120  
gctactccat gaatgcgatc catggntctg cattctccac aanccatgtg acgcccgagg 180  
acggttttag ctangcnagt tangaggtn tgggctgggn n 221

<210> 759

<211> 493

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 759

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gtccgnacac gcgtccgctc ccctagccgc cgccgccgcc gctcgtctcc ctgagagggc 120  
cgggaccgag gaactggccg agtactaggt agagaatcgg tttttcttgt ctcagccggg 180  
gtctgctgcg tctggtggtg gtgaagggga gaaattcgtg agatctgttc cggatcggcg 240  
tgcgagctcg ggaatcaggg gtttcacaca tagcttcgtc gatttgaatt tgatgactaa 300  
tggagtctaa ggggtggcaa aagtctagca gtagtcgttc taatgatgta tgaactcccc 360  
ttggctacag cattgangac gttcgacctg ccggaggcgt naagaanttc cagcctgctg 420  
ctactccaac tgcgcnaaag aanccatcct ganaaccctt ttgggctcct catccaataa 480  
nttaaggatt tct 493

<210> 760

<211> 218

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 760

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ccttcgattt gaatttgatg tactaatggn gtctaagggg ggcaaaaagt ctagcagtag 120  
tcgttctatg atgtatgaag ctccccttgg gctacagcat tgaggangtt cgacctgccg 180

gacgtgaaga agttccagtc tgntgnttac tccaaatg 218

<210> 761  
<211> 168  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 761

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gtnaaccttg agangtgcac gacnggtctg gacaagaaga aagcntgtgt cntnncaag 120  
actaatgcng atgggaacac aacangtgcc aaggaaatga caaagcnc 168

<210> 762  
<211> 151  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 762

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ggaggaagcg gatgccatgg aggagaaggc gggagtgtt gatgagtaag acgggcttct 120  
ggggtcgatt tgcttctgag ttgtttattt t 151

<210> 763  
<211> 228  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 763

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tgcaacaaca atggtggaat aggancttcc tggaaggcgg ggntcctcgt gtaacaaaaa 180  
acttctgtgc tgctnaagac ncngttgcta acctcgcccc aaatTTTT 228

<210> 764  
<211> 147  
<212> DNA

<213> Zea mays  
 <400> 764  
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 cgtcgcaatt tcgtggttgt cgtttggtta ttctgtgaag cagccaagcc aggctattgt 120  
 tatgaaaatt tgtcgtctgt aagcatg 147

<210> 765  
 <211> 187  
 <212> DNA  
 <213> Zea mays  
 <400> 765  
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 gaggtctatg actgcaacaa catgtggagc aggagctgcc tggaggcggg ctctctgtat 120  
 accagagctt ctgcgctgct gaagacgctg ttgtacctt cgcccaaato tgttttccac 180  
 tgcttttg 187

<210> 766  
 <211> 154  
 <212> DNA  
 <213> Zea mays  
 <400> 766  
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 ccagcattgt gttctgattc acctgctcca atggctgttc tttctgctgc tgatgcttcc 120  
 ccggtctcag ctatcgggtt tgagggcag agaa 154

<210> 767  
 <211> 162  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 767  
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 tgtacctctc tgagtcaagc ttgtttatct atccctctga agattgtnat caagacctgt 120  
 ggcaactacca agctcctgct caccattcca agaatccttg ag 162

<210> 768  
 <211> 320  
 <212> DNA  
 <213> Zea mays

<400> 768

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ccctccccta gccgccgccg ccgctcgtct ccctgagagg tgccgggacc gaggaactgg 60
ccgagttcta ggtagagaat cggttttgct tgtctcagca cggggtctgc tgcgtctggt 120
ggtggtgaag gggagaaaatt cgtgagatct gttccggatc aggcggtcga gctcgggaat 180
caggggtttc acacatagct tcgtcgatct gaatttgatg tactaatgga gtctaagggt 240
ggcaaaaagt ctagcagtag tcgttccatg atgtatgaag ctccccttgg ctacagcatt 300
gaggacgttc gacctgccgg 320
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<210> 769  
 <211> 295  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 769

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ttttgcttgt ctacagcannn ggtctgctgc gtctgggtgt ggtgaagggg agaaattcgt 120
gagatctgtt ccggatcagg cgtgcgagct cgggaatcag gggtttcaca catagcttcg 180
tcgatttgaa tttgatgtac taatggagtc taaggggtggc aaaaagtcta gcagtagtcg 240
ttccatgatg tatgaagctc cccttggtcta cagcattgag gacgttcgac ctgcc 295
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<210> 770  
 <211> 329  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 770

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atgactgcaa caacatggtg gagcagagct gcctggagcg ggctctctgt accagagttc 120
ngtgctgctg aagacgtgtg ntactcgcca atctgttncc actgcttgac ggcgagacgt 180
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ggaagtgtcc tcctcctatg aagaaggata caagctggct aatcttctct gtgggaggag 240  
gagcggatnc atggaggaga aggcgggatg cttgattgag tagacgggtt ctggggtcga 300  
ttnttctgag tgttattntn cgcgcaatt 329

<210> 771

<211> 511

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 771

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gtgccgggac cgaggcnactg gncgagttct agggagagaa tcggttttgc ttgtctnagc 180  
acgggggtctg ntgcgtctgg tgggtggtgaa ggggagaaaat tcgtgagatc tgttccggat 240  
caggcgtgcg agctcgggaa tcagggggtt cacacatagn ttcgtngatt tgaatttgat 300  
gtactaatgg agtctaaggg tggcaaaaag tctagcangg agtcgttcca tgatgtatga 360  
agtccccctt ggntacagga ttgaagacgt tagactncct ganggcatga aaaaagttca 420  
agctggnggt tnnttcaanc nccncnanaa accgttctntn aattcccttt nggttinctta 480  
atctnaaann ttaaganttn ctttcttaaa a 511

<210> 772

<211> 154

<212> DNA

<213> Zea mays

<400> 772

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gctctaggtg gtcagctgcg tctaccacaa tgagcatgta cgtatggaga aatatctgtg 120  
aaccattttt gtttatgaat aagatttggt tttt 154

<210> 773

<211> 160

<212> DNA

<213> Zea mays

<400> 773

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gctctaggtg gtcagctgcg tctaccacaa tgagcatgac gtatggagaa atatctgtga 120  
acccattttg tttatgaata agatttgttt ttttcgagtt 160

<210> 774

<211> 126

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 774

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tgctgatgct tccccggtct cagctatcgg gtttgnnggc tatgngaagc gccttgagat 120  
cacatt 126

<210> 775

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 775

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nccggttgcc aaagaattcc ctcccctagc cgccgccgcc gctcgtctcc ctgagaggtg 120  
ccgggaccga ggaactggcc gagttctagg tagagaatcg gttttgcttg tctcagcacg 180  
gggtctgctg cgtctggtgg tgggtgaagg gagaaattcg tgagatctgt tccggatcag 240  
gcgtgcgagc tcgggaatca ggggtttcac acatagcttc gtcgatttga atttgatgta 300  
ctaattggagt ctaagggtgg caaaaagtct agcagtagtc gttccatgat gtatgaagct 360  
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<210> 776

<211> 493

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 776



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 ccgangaact ggccgngttc taggtagaga atnggttttg cttgtctcan cacggggtct 180  
 gctgcgtctg gtggtggtga aggggagaaa ttcgtgagat ctgttccgga tcaggcgtgc 240  
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 gagtctaagg gtggcaaaaa gtctagcagt antcntcca tgatgtatga agctnccnt 360  
 ggctacagca ttgaggacgt cnanctnccc ggaagcntta aanaattnca gnetgtgntt 420  
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<210> 777

<211> 193

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 777

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 tgtgaaccca ttttgtttat gaataagatt tgtttttttt cgagttaaaa naaaaaaaaa 180  
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<210> 778

<211> 136

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 778

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 ttccgttgcc gtganc 136

<210> 779

<211> 117

<212> DNA  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 gaatcagggg ttccacacat agctcgtcga tntgaatttg atgtactaat ggagtctaag 180  
 ggtggcaaaa agtctagcag tagtcgttct atgatgtatg aagctcccct tggctacagc 240  
 attgatgacg ttc 253

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 <211> 273  
 <212> DNA  
 <213> Zea mays  
 <400> 781  
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 agatctgttc cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt 180  
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 tctatgatgt atgaagctcc ccttggctac agc 273

<210> 782  
 <211> 110  
 <212> DNA  
 <213> Zea mays  
 <400> 782

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<211> 272  
<212> DNA  
<213> Zea mays

<400> 783  
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agatctgttc cggatcaggc gtgagagctc gggaatcagg ggtttcacac atagcttcgt 180  
cgatttgaat ttgatgtact aatggagtct aagggtggca aaaagtctag cagtagtcgt 240  
tctatgatgt atgaagctcc ccttggctac ag 272

<210> 784  
<211> 491  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 784

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aagtctaaca agtagtcgtt ccatgatgta tgaagctccc cttggctaca gcatttgaag 360  
gacgttcgaa cctgccggaa gcnttnaaga agttncaagt ctgctgntta cttccaactt 420  
gngccaaaaa agccatcctg atattcctt tggctttcct aatctaagta agtttaagga 480  
ttcctttctt g 491

<210> 785  
<211> 273  
<212> DNA  
<213> Zea mays

<223>        unsure at all n locations  
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ttccacagat cacgcgtgcg cgctcgcgaa tcgggggttc cacacatagc ttcgtcgttt   180
tgaatttgat gtactaatgg agtctaangg tggcaagaag tctagcagta gtcgttccat   240
gatgtatgaa gctccccttg gctacagcat tga                                   273
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<210>        786  
 <211>        310  
 <212>        DNA  
 <213>        Zea mays

<223>        unsure at all n locations  
 <400>        786

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ctgctgcgtc tggnggtggt gaaggggaga aattcgtgag atctgttccg gatcaggcgt   180
gcgagctcgg gaatcagggg tttcacacat agcttcgtcg atttgaattt gatgtactaa   240
tggagtctaa ggggtggcaaa aagtctagca gtagtcgttc catgatgtat gaagctcccc   300
ttggctacag                                   310
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<210>        787  
 <211>        307  
 <212>        DNA  
 <213>        Zea mays

<400>        787

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ctgcgtctgg tgggtggtgaa ggggagaaat tcgtgagatc tgttccggat caggcgtgcg   180
agctcgggaa tcaggggttt cacacatagc ttcgtcgatt tgaatttgat gtactaatgg   240
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gctacag                                   307
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<210> 788  
 <211> 107  
 <212> DNA  
 <213> Zea mays

<400> 788

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<210> 789  
 <211> 265  
 <212> DNA  
 <213> Zea mays

<400> 789

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 agatctgttc cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt 180  
 cgatttgaat ttgatgtact aatggagtct aagggtggca aaaagtctag cagtagtcgt 240  
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<210> 790  
 <211> 304  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 790

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 ggtgaaaggg agaaattcgt gagatctgtt ccggatcagg cgtgcgagct cggaatcag 180  
 gggtttcaca catagcttcg tcgatttgaa ttgatgtac taatggagtc taaaggggtg 240  
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 ggac 304

<210> 791

<211> 149  
 <212> DNA  
 <213> Zea mays

<400> 791

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 aagatgaacg tccctagttc tagatcgcg 149

<210> 792  
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 <212> DNA  
 <213> Zea mays

<400> 792

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 ttccacagat cacgcgtgcg cgctcgcgaa tcgggggttc cacacatagc ttcgtcgttt 180  
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 gatgtatgaa gctccccttg gctacacatt gag 273

<210> 793  
 <211> 285  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 793

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 ntgaaggnga gaanttcgtg agatctgttc cggatcaggc gtgcnagctc gggantcagg 180  
 ggtttcacac atagcttcgt cgatttgaat ttgatgtact aatngagtct aanggtggca 240  
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<210> 794  
 <211> 135  
 <212> DNA  
 <213> Zea mays

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aatccntgtg acgcc 135
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a a c t g g c c g a	g t a c t a g g t a	g a g a a t c g g t
60		
t t t t c t t g t c	t c a g c c c g g g	g t c t g c t g c g
t c t g g t g g t g	g t g a a g g g g a	g a a a t t c g t g
120		
a g a t c t g t t c	c g g a t c a g g c	g t g c g a g c t c
g g g a a t c a g g	g g t t t c a c a c	a t a g c t t c g t
180		
c g a t t t g a a t	t t g a t g t a c t	a a t g g a g t c t
a a g g g t g g c a	a a a a g t c t a g	c a g t a g t c g t
240		
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258		

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ttccacagat	cacgcgtgcg	cgctcgcgaa tcggggggttc cacacatagc ttcgctcgttt 180
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 agatctgttc cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt 180  
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<210> 798  
 <211> 102  
 <212> DNA  
 <213> Zea mays

<400> 798

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<210> 799  
 <211> 254  
 <212> DNA  
 <213> Zea mays

<400> 799

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 agatctgttc cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt 180  
 cgatttgaat ttgatgtact aatggagtct aagggtggca aaaagtctag cagtagtcgt 240  
 tctatgatgt atga 254

<210> 800  
 <211> 255  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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cgatttgaat ttgatgtact aatggagtct aagggtggca aaaagtctag cagtagtcgt 240  
tctatgatgt atgaa 255

<210> 801  
<211> 255  
<212> DNA  
<213> Zea mays

<400> 801

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agatctgttc cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt 180  
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<210> 802  
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<400> 802

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cgatttgaat ttgatgtact aatggagtct aagggtggca aaaagtctag cagtagtcgt 240  
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<210> 803  
<211> 299  
<212> DNA  
<213> Zea mays

<400> 803

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gcgagctcgg gaatcagggg ttccacacat agctccgtcg atttgaattt gatgtactaa 240

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<210> 804  
<211> 295  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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agatctgttc cggatcaggc gtgcgagctc ggggaatcagg ggtttcacac atagcttcgt 180

cgatttgaat ttgatgtact aatggagtct aagggtgcaa aaagtctagc agtagtcgtn 240

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<210> 805  
<211> 255  
<212> DNA  
<213> Zea mays

<400> 805

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ttccacagat cacgcgtgcg cgctcgcgaa tcgggggttc cacacatagc ttcgtcgttt 180

tgaatttgat gtactaatgg agtctaaggg tggcaagaag tctagcagta gtcgttccat 240

gatgtatgaa gctcc 255

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<211> 278  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 806

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aggggagaaa ttcgngagat ctgttccgga tcaggcgtgc nanctcgga atcaggggtt 180  
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gtctagcagt agncgttcta tgatgtatga agctcccc 278

<210> 807  
<211> 127  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 807

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aatttgatgt actantggag tctaagggtg gcaaaaagtc tagcagtagt cgttctatga 120  
tgtntga 127

<210> 808  
<211> 251  
<212> DNA  
<213> Zea mays

<400> 808

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cgatttgaat ttgatgtact aatggagtct aagggtggca aaaagtctag cagtagtcgt 240  
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<212> DNA  
<213> Zea mays

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agatctgttc cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt 180

cgatttgaat ttgatgtact aatggagtct aagggtggca aaaagtctag cagtagtcgt 240  
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<210> 810  
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<212> DNA  
<213> Zea mays

<400> 810

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agatctgttc cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt 180  
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tctatgatgt 250

<210> 811  
<211> 260  
<212> DNA  
<213> Zea mays

<400> 811

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ttccacagat cacgcgtgcg cgcttcgcga atcggggggtt ccacacatag cttcgtcgtt 180  
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gatgtatgaa gctccccttg 260

<210> 812  
<211> 257  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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taagatctgt tccacagatc acgcgtgcmc gctcgcgaat cgggggttcc acacatagct 180

tcgtcgtttt gaatttgatg tactaatgga gtctaagggt ggcaagaagt ctagcagtag 240  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 813

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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 814

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 tctggtgggtg gtgaagggga gaaattcgtg agatctgttc cggatcaggc gtgcnagctc 180  
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 aagggtggca aaaagtctag cagtagtcgt tccatg 276

<210> 815  
 <211> 97  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 815

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<210> 816

<211> 262  
 <212> DNA  
 <213> Zea mays  
  
 <400> 816  
  
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 ttctaggttag agaatcggtt ttgcttgtct cagcacgggg tctgctgcgt ctggtggtgg 120  
 tgaaggggag aaattcgtga gatctgttcc ggatcaggcg tgcgagctcg ggaatcaggg 180  
 gtttcacaca tagcttcgtc gatttgaatt tgatgtacta atggagtcta aggggtggcaa 240  
 aaagtctagc agtagtcggt cc 262

<210> 817  
 <211> 281  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 817  
  
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 gaccgaggaa ctggccgagt tctaggtaga gaatcggttt tgcttgtctc ancacggggg 120  
 ctgctgcgtc tgggtggtgg gaaggggaga aattcgtgag atctgttccg gatcaggcgt 180  
 gcgagctcgg gaatcagggg tttcacacat agcttcgtcg atttgaattt gatgtactaa 240  
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<210> 818  
 <211> 250  
 <212> DNA  
 <213> Zea mays  
  
 <400> 818  
  
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 ttttcacagc ctgggggtctg ctgcgtaggg tgggtgtgaa ggggagaagt ttaagatctg 120  
 ttccacagat cacgcgtgcg cgctcgcgaa tcgggggttc cacacatagc ttcgtcgttt 180  
 tgaattgatg tactaatgga gtctaagggt ggcaagaagt ctagcagtag tcgttccatg 240  
 atgtatgaag 250

<210> 819  
 <211> 253  
 <212> DNA  
 <213> Zea mays  
  
 <400> 819  
  
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 gagatctggt ccggatcagg cgtgcgagct cgggaatcag gggtttcaca catagcttcg 180  
 tcgatttgaa tttgatgtac taatggagtc taaggggtggc aaaaagtcta gcatagtcgt 240  
 tctatgatgt atg 253

<210> 820  
 <211> 247  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 820  
  
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 agatctgttc cggatcaggc gtgcgagctc gggaatcagg ngtttcacac atagcttcgt 180  
 cgatttgaat tgatgtacta atggagtcta aggggtggcaa aaagtctagc agtagtcggt 240  
 ctatgat 247

<210> 821  
 <211> 279  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 821  
  
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 tggccgagtt ctaggtagag aatcgggtttt gcttgtctca gcacgggtct gctgcgtctg 120  
 gtggtggtga aggggagaaa ttcgtgaaga tctgttccgg ntcaaggcgt gcgatctcgg 180  
 gaatcagggg tttcacacat agcttcgtcg atttgaattt gatgtactaa tggagtctaa 240  
 ggggtggcaa aagtctagcc agtagtcggt ccatgatgt 279

<210> 822  
 <211> 253  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 822  
  
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 ttttcttgtc tcagcccggg gtctgctgcg tctggtggtn gtgaagggga gaaattcgtg 120  
 agatctgttc cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt 180  
 cgatttgaat ttgatgtact aatggagtct aagggtngnn aaaagtctag cagtagtcgt 240  
 ctatgatgta tna 253

<210> 823  
 <211> 269  
 <212> DNA  
 <213> Zea mays  
  
 <400> 823  
  
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 gcgtctggtg gtggtgaagg ggagaaattc gtgagatctg ttccggatca ggcgtgcgag 180  
 ctccggaatc aggggtttca cacatagctt cgtcgatattg aatttgatgt actaatggag 240  
 tctaaggggtg gcaaaaagtc tagcagtag 269

<210> 824  
 <211> 296  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 824  
  
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 gtgccgggac cgangaactg gccgagttct aggtagagaa tcggttttgc ttgtctcagc 120  
 acgggggtctg ctgcgtctgg tgggtggtgaa ggggagaaat tcgtgagatc tgttccggat 180  
 caggcgtgcg agctcgggaa tcaggggttt cacacatagc ttcgtcgatt tgaatttgat 240



gtactaatgg agtctaaggg tggcaaaaag tctagcagta gtcttccatg atgtat 296

<210> 825  
 <211> 296  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 825

gncaaagaat tccctcccct agccgccgcc gccgctcgtt tccctgagag gtgccgggac 60  
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 ctgctgtctgg tgggtggtgaa ggggaganat tcgtgagatc tgttccggat caggcgtgcg 180  
 agcncgggaa tcaggggttt cacacatagc tcgtcgattt gaatttgatg tactaatgga 240  
 gtctaagggg ggcaaaaagt ctagcatagt cgttccatga tgtatgaagc tcccct 296

<210> 826  
 <211> 267  
 <212> DNA  
 <213> Zea mays

<400> 826

aaaagaattc cctcccctag ccgccgccgc cgctcgtctc cctgagaggt gccgggaccg 60  
 aggaactggc cgagttctag gtagagaatc ggttttgcct gtctcagcac ggggtctgct 120  
 ggtctggtgg tgggtgaaggg gagaaattcg tgagatctgt tccggatcag gcgtgcgagc 180  
 tcgggaatca ggggtttcac acatagcttc gtcgatttga atttgatgta ctaatggagt 240  
 ctaaggggtg caaaaagtct agcagta 267

<210> 827  
 <211> 506  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 827

gagcggnnnn tnnntatggt ggggggnnta atnnttctac tgggtccggaa ttcccgggtc 60  
 gaccacgcg tccggttgcc aaagaattcc ctcccctagc cgccgccgcc gctcgtctcc 120  
 ctgagaggtg ccgggaccga ggatttggcc gagttctagg tagagaatcg gttttacttg 180

tctcagcccg gggctctgctg cgtctgggtg tggatgaagg gagaaattcg tgagatctgt 240  
tccggatcag gcgtgcgagc tcgggaatca ggggtttcac acatagcttc gtcgatttga 300  
atttgatgta ctaatggaat ctaanggtgg caaaaaantct aacaataatc gntctatgaa 360  
tggatgaaac tnccttggc tncancattg aagaccttcg anctnnccga agcnttaaaa 420  
aattccagtc tgntgggttac ttcaactnng ccgaaaaacc attctggaat tccctttngn 480  
tttcctnaat ctaatannta aggatt 506

<210> 828  
<211> 295  
<212> DNA  
<213> Zea mays

<400> 828

ctcggaaattc ggctcgagaa agaattccct ccctagccg ccgcccgcgc tcgtctccct 60  
gagagggtgcc gggaccgagg aactggccga gttctaggtg gagaatcggg tttgcttgct 120  
tcagcacggg gtctgctgcg tctgggtggg gtgaagggga gaaattcgtg agatctgttc 180  
cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt cgatttgaat 240  
ttgatgtact aatggagtct aagggtggca aaaatctagc agtagtcgtt ccatg 295

<210> 829  
<211> 265  
<212> DNA  
<213> Zea mays

<400> 829

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gaccgaggaa ctggccgagt tctaggtaga gaatcggttt tgcttgtctc agcacggggg 120  
ctgctgcgtc tgggtgggtg gaaggggaga aattcgtgag atctgttccg gatcaggcgt 180  
gcgagctcgg gaatcagggg ttccacacat agcttcgtcg atttgaattt gatgtactaa 240  
tggagtctaa ggggtggcaa aagtc 265

<210> 830  
<211> 271  
<212> DNA  
<213> Zea mays

<400> 830

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tgccgggacc gaggaactgg ccgagttcta ggtagagaat cggttttgct tgtctcagca 120  
cggggtctgc tgcgtctggt ggtggtgaag gggagaaatt cgtgagatct gttccggatc 180  
aggcgtgcga gctcgggaat caggggtttc acacatagct tcgtcgattt gaatttgatg 240  
tactaatgga gtctaagggt ggcaaaaagt c 271

<210> 831

<211> 228

<212> DNA

<213> Zea mays

<400> 831

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ttttcacagc ctggggctctg ctgcttaggg tgggtgtgaa ggggagaagt ttaagatctg 120  
ttccacagat cacgcgtgcg cgctcgcgaa tcgggggttc cacacatagc ttcgtcgttt 180  
tgaatttgat gtactaatgg agtctaaggg tggcaagaag tctagcag 228

<210> 832

<211> 227

<212> DNA

<213> Zea mays

<400> 832

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tttcttgtct cagcccgggg tctgctgcgt ctggtggtgg tgaaggggag aaattcgtga 120  
gatctgttcc ggatcaggcg tgcgagctcg ggaatcaggg gtttcacaca tagcttcgtc 180  
gatttgaatt tgatgtacta atggagtcta agggtgggcaa aaagtct 227

<210> 833

<211> 270

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 833

gttgccaaag anttccctcc cctagccgcc gccgcgcgtc gtactccctg agaggtgccg 60  
ggaccgagga actggccgag ttctaggtng agnatcggtt ttgcttgtct cagcacgggg 120  
tctgctgcgt ctggtggtgg tganggggag aaattcgtga gatctgttcc ggatcaggcg 180  
tgcgagctcg ggaatcaggg gtttcacaca tagcttcgtc gatttgaatt tgatgtacta 240  
atggagtcta anggtggcaa aaagtctanc 270

<210> 834  
<211> 222  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 834

tcgtctccct gagaggtgcc gggaccgagg aactggccga gtactaggtg gagaatcggt 60  
ttttcttgtc tcagcccggg gtctgctgcg tctggtggtg gtgaagggga gaaattcgtg 120  
agatctgttc cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt 180  
cgatttgaat ttgatgtact aatggagtct aagggtggca aa 222

<210> 835  
<211> 261  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 835

aaagaattcc ctcccctagc cgccgcngcc gctcgtctcc ctgagaggtg ccgggaccga 60  
ggaactggcc gagttctagg tagagaatcg gttttgcttg tctcagcacg gggctctgctg 120  
cgtctggtgg tgggtgaagg gagaaaattcg tgagatctgt tccggatcag gcgtgcgagc 180  
tcgggaatca ggggtttcac acatagcttc gtcgatttga atttgatgta ctaatggagt 240  
ctaagggtgg caaaaatcta c 261

<210> 836  
<211> 97  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 836

tcagctgcgt ctaccacaat gagcatgaac gtatggngac atatctgtga acccattttg 60  
 tttatgaata agatttggtt ttntcgagtn aaaaaa 97

<210> 837  
 <211> 229  
 <212> DNA  
 <213> Zea mays

<400> 837

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 tgcttgtctc agcacggggt ctgctgcgtc tgggtggtgg gaaggggaga aattcgtgag 120  
 atctgttccg gatcaggcgt gcgagctcgg gaatcagggg ttccacacat agctcgtcga 180  
 ttgaatttg atgtactaat ggagtctaag ggtggcaaaa agtctagca 229

<210> 838  
 <211> 254  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 838

ganttccctc ccctagccgc cgccgccgct acgtctccct gagaggtgcc ggganccagg 60  
 aactggccga gttctaggta gagaatcggg ttgtctgtc tcagcacggg gtctgctgcg 120  
 tctggtggtg gtgaagggga gaaattcgtg agatctgttc cggatcaggc gtgcgagctc 180  
 gggaatcagg ggtttcacac atagcttcgt cgatttgaat ttatgtact aatggagtct 240  
 aagggtggca aana 254

<210> 839  
 <211> 493  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 839

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 ccgaggggatt tggcccgagt tctaggtaag aagaaatcgg gttttacttg tctcaagccc 120  
 gggggtctgc ttgcgtctgg tgggtgggtga aaggggaaga aattcgtgaa gatctgttcc 180

ggatcaggcg tgcgaanctc gggaatcagg gggtttcaca cataagcttc gtcgatttga 240  
 atttgatgta ctaaattggga agtctaaagg gtggcaaaaa gtctagcagt aagtccgttc 300  
 tatgatgtat gaaacttccc ttgggttaca gcatttgaag gacgttcgac ctggccggan 360  
 gccttgaaga angttccagt ctgnttgntt acttcaactt gngccaaaaa accattcttg 420  
 atattccttt tgggntttcc tcaatctagt annttaanga nttcttttct gacacttttg 480  
 aatcttganc caa 493

<210> 840  
 <211> 296  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 840

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 ctagccgccg ccgncgccgc tcgtctccct gagaggtgcc ggnaccgagg aactggccga 120  
 gtactaggta gagaatcgnt ttttcttgct tcagcccggg gtctgctgctg tctgggtggtg 180  
 gtgaanggga gnaattcgtn agatctgttc cggatcaggc gtgagagctc gggaatcagg 240  
 ggtttcacac atagcttcgt cgatttgaat ttgatgtact aatggagtct aagggt 296

<210> 841  
 <211> 292  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 841

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 ggtctgctnc ntctggtggt ggtgaagggg agaaattcgt ganatctgtt ccggancatg 180  
 cgtgngagct cnggaatcag gggtttcaca catagcttcg tcgatttgaa tntgatgtat 240  
 aatggatcta agggtnghaa naantctagc agtagtcgtn cnagntgnat ga 292

<210> 842  
 <211> 254

<212> DNA  
 <213> Zea mays  
 <400> 842  
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 gagaatcgct tttcacagcc tgggggtctgc tgcgtagggt ggtgttgaag gggagaagtt 120  
 taagatctgt tccacagatc acgcgtgcgc gctcgcgaaat cgggggttcc acacatagct 180  
 tcgtcgtttt gaattgatgt actaatggag tctaaagggt gcaagaagtc tagcatatcg 240  
 ttccatgatg tatg 254

<210> 843  
 <211> 255  
 <212> DNA  
 <213> Zea mays  
 <400> 843  
 gccaaagaat tccctccctt agccgccgcc gccgctcgtc tccctgagag gtgccgggac 60  
 cgaggaaactg gccgagttct aggtagagaa tcggttttgc ttgtctcagc acgggggtctg 120  
 ctgcgtctgg tgggtggtgaa ggggagaaaat tcgtgagatc tgttccggat caggcgtgcg 180  
 agctcgggaa tcaggggttt cacacatagc ttcgtcgatt tgaattgatg tactaatgga 240  
 gtctaagggt ggcaa 255

<210> 844  
 <211> 214  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 844  
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 ttccacagat cacgcgtgcg cgctncgcga atcggggggt ccacacatag cttcgtcggt 180  
 tgaatttgat gtactaatgg agtctaagggt tggc 214

<210> 845  
 <211> 798  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 845

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gggggatcaa cattcttctt gagggcnccc tgggtctttt tgggaccctt catgggcgtg 120  
ggttttgneg tgccccctctt ccaaggcccc agattgactc tgttctggga tctttgcacg 180  
ggngcacaaa ttgtgtcccg agctcttcca acaagggtatt tccgactcat atgtcctttc 240  
tgaggcaaag cttgnattatc tctcctctga agattgtcat caaagacctg tggcactacc 300  
aagctcctgc tcaccattcc aaagaatcct tgaacttgct tgaaaaactt gtctatgccca 360  
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ccccccacaa ggaacttctt ttgaaggaag ttgntgnact ttaaaccgct tcttttggcc 480  
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naataatgtt gangggaaca caacttgggc caagggaaat ganaaacttt ttgnnttttg 720  
aaaatatncc ccgaanggaa aacngnantt tantttaacc cgggggttttc aggaaggggc 780  
ccagggtttg ttttcnaa 798

<210> 846

<211> 268

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 846

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aganctgtac cactcaggcg tgcgagctcg ggaatcaggg gtttcacaca tagcttcgtc 180  
gatttgaatt tgatgtacna tggagtctaa ggggtggcaaa aatctagncn tatcgttcta 240  
ngattatnaa gccccctngg taaannat 268

<210> 847



<211> 276  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 847  
  
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 ggtagagaat cggtttttct tgtctcagcc cgggggtctgc tgcgtctggt ggtgggtgaag 120  
 gggagaaatt cgtgagatct gttccggatc angcgtgcga gctcgggaat caggggtttc 180  
 acacatagct cgtcgatttg aatttgatgt acnaatggat cnaaggggtg caaaaagtct 240  
 agcagnagtc gtctatgatg tatgaagctc cccttg 276

<210> 848  
 <211> 185  
 <212> DNA  
 <213> Zea mays  
  
 <400> 848  
  
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 tgtctgtgca tcttgctcta aaacaatcgc agtcctgcaa gttgttgctg ttgctcctac 120  
 ccctgcctct gcaattgggt ttgagggata tgagaagcgc ctcgagatca gcttctatga 180  
 ggcac 185

<210> 849  
 <211> 519  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 849  
  
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 ccgggtcgac ccacgcgtcc gagagcttcg actcatatgt tctgtccgag tccagcctct 120  
 ttgtgtatcc gggacagggt tgttctgaag acctgtggga cgacgaagct gctgctcgcc 180  
 attcctcgca tccttgagct tgctgcaggg ctgtcactgc ctcttctttc agcgaagtac 240  
 tctcgtggga ccttcatctt ccccggcgcg cagcccgcgc cacaccgcag cttctcggag 300  
 gaggtatctg tgctgaacgc tttctttgggt aacctcaagt ccggtggcaa tgcctacctg 360

atcgggtgaac cgttcaagcc caacaagaag tggcatgtct actacgccac agaggagcct 420  
gagcgtccta tggtgacgct tgagatgtgc atgacagagc ttgacgttaa gaaagctgct 480  
gtgttcttca agaacttcac tgggtggcaac ttnacntna 519

<210> 850

<211> 324

<212> DNA

<213> Zea mays

<400> 850

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ccatagtgtc acagctctcc aacgagagct tcgactcata tgttctgtcc gagtccagcc 180  
tcttttgtga tccccacaag gttgttctga agacctgtgg gacgacgaag ctgctgctcg 240  
ccattcctcg catccttgag cttgctgcag ggctgtcact gcctcttctt tcagcgaagt 300  
actctcgtag gaccttcac ttcc 324

<210> 851

<211> 260

<212> DNA

<213> Zea mays

<400> 851

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cctgcgcgcc ctctcccgtag agcagatcga ctcgtttctg gatctcgac ggtgcacccat 120  
agtgtcacag ctctccaacg agagcttcga ctcatatgtt ctgtccgagt ccagcctctt 180  
tgtgtatccc cacaagggtg ttctgaagac ctgtgggacg acgaagctgc tgctcgccat 240  
tcctcgcatc cttgagcttg 260

<210> 852

<211> 272

<212> DNA

<213> Zea mays

<400> 852

agcgctcga gatcacgttc tctgacgcgc ctgtctttga ggacccttgt ggtcgtggcc 60

tgcgcgccct actcccgatga gcagatcgac tcgtttctgg atctcgacg gtgcaccata 120  
 gtgtcacagc totccaacga gagcttcgac tcatatgttc tgtccgagtc cagcctcttt 180  
 gtgtatccca caaggttgtt ctgaagacct gtgggacgac gaagctgctg ctcgccattc 240  
 ctgcatacct tgagcttgtt gcaggctgtc at 272

<210> 853  
 <211> 239  
 <212> DNA  
 <213> Zea mays

<400> 853  
 gcgcctcgag atcacgttct ctgacgcgcc tgtttttgag gacccttgtg gtcgtggcct 60  
 gcgcgccctc tcccgtgagc agatcgactc gtttctggat ctgcacgggt gcaccatagt 120  
 gtcacagctc tccaacgaga gtttcgactc atatgttctg tccgagtcca gcctctttgt 180  
 gtatccccac aaggttgttc tgaagacctg tgggacgacg aagctgctgc tcgccattc 239

<210> 854  
 <211> 267  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 854

cctgcgcgcn ctntcncgtg agcagatcga gtcgtttctg gatctcgac ggtgcaccat 60  
 agtgtctcag ctctnccaan gagagctncg actcatatgt tctgtncgag tccagcctct 120  
 ttgtgtatcc ccacaaggnt gttctgaaga cctgtggnac gacgaagctg ctgctcgca 180  
 ttctcgcat ccttgagctt gctgcagggc tgtcantgcc tcttctttca gcgaagtact 240  
 ctgctgggac cttcatcttc cccggcg 267

<210> 855  
 <211> 295  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 855

attggctttg agggctatga gangcgcctc gagatcacgt tctctgacgc gcctgtcttt 60

gaggaccctt gtggtcgtgg cctgcgcgcc ctctcccgtg agcagatcga ctcgtttctg 120  
gatctcgac ggtgcacat agtgtcacag ctctccaacg agagcttcga ctcatatgtt 180  
cagtccgagt ccagcctctt gtgtatcccc acaaggttgt tncgaagact gtgggacgac 240  
gaagctgctg ctcgccattc ctgcgcatct gagntgctgc aggctgtcat gcctc 295

<210> 856  
<211> 266  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 856

caccatagtg tcacanctct ccaacgagag cttcgactca tatgttctgt ccgaatccag 60  
cctcttttggtg tatccccaca aggttggttct caagacctgt gggacnacga agctgctgct 120  
cgccattcct cgcatecttg agcttgctgc agggctgtca ctgcctcttc tttcagcgaa 180  
gtactctctt gggaccttca tcttccccgg cgcgcagccg cgccacaccg cagcttctcg 240  
gaggaggtat ctgtgctgaa cgcttt 266

<210> 857  
<211> 316  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 857

cagcctcttt gtgtatcccc acaaggttgt tctgaagacc tgtgggacga cgaagctgct 60  
gctcgccatt cctcgcatcc ttgagcttgc tgcagggtg tcaactgcctc ttctttcagc 120  
gaagtactct cgtgggacct tcatcttccc cggcgcgcan ccgcgccaca ccgcagcttc 180  
tcggaggagg tatctgtgct gaacgctttc tttggtaacc tcaagtccgg tggcaatgcc 240  
tacctgatcg gtgaaccgtt caagcccaac aagaagtggc atgtctacta cgccacagag 300  
gagcctgagc gtccta 316

<210> 858  
<211> 219  
<212> DNA  
<213> Zea mays

<400> 858

ggatatcttaa acttagaact cttcagcgtg catcatatac tcattacttc tatgaagcaa 60  
ctgttggtgc tggcctccct atcattagca ctctgcgtgg tctcctagag acaggtgaca 120  
agatattgcg cattgaaggg attttcagtg gaacgttaag ttatatTTTT aacaacttcg 180  
aaggagcaag aacctttagt gatgttggtg ctgaagcaa 219

<210> 859

<211> 323

<212> DNA

<213> Zea mays

<400> 859

cagcactcca ggagtcagtg caatactttt tgatgcatta gcaaaggcaa acattaatgt 60  
tcgagcaata gctcaagggt gcagtgaata caatattact gttgtattga agcaacaaga 120  
ttgtgtaagg gctctgagag ctgctcactc aaggttcttc ctctccaaaa ccacacttgc 180  
tggtgggatc attggacctg gtttaattgg tggagcactc ctttaaccagt tgaagaatca 240  
gactgctgtt ctcaaggaaa atatgaacat tgatctgcgt gtcattggaa taactggctc 300  
aagtacaatg cttttgagcg aca 323

<210> 860

<211> 310

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 860

ctttctgata ttctgtgaa gagccttggt ccagaaacac ttgcagcatg ctcgtcagca 60  
gatgaattca tgcagaagct accatccttt gacgaggact gggccaggca acgcagtgag 120  
tgctgatgcn gcagacgaag tcctgcgtta cgttggagtg gtggatacgg tgaacaagag 180  
gggacagggt gagctacgta ggtacaagag ggaccaccgg ttcgcgcant ctccggctcc 240  
gacaacatca tcgcattcac cacctcgagg tacaaggagc agccgctaata cgtgcggngc 300  
ccaggcgcgg 310

<210> 861

<211> 242

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 861  
 tgaacactct gtatgctttg ctgttccaga aaaggaagtt gcattggttt ctgcagcctt 60  
 gcatgctagg tttcgtgaag cattggcagc agggagggtta tctaaggttg aagtcattcn 120  
 taattgtagc atccttgcta ctgtcggcct gaggatggca agtacacctg gagtcagcgc 180  
 gacccttttt gatgcactag ctaaggcaaa tnttaatgta agggcgatan tcaaggttgc 240  
 ag 242

<210> 862  
 <211> 303  
 <212> DNA  
 <213> Zea mays  
 <400> 862  
 tgaaaaacga cttgaaaaat ggttttctcg atgtccggct gagacaataa ttgctactgg 60  
 gtttattgcy agtacacctg aaaacatccc aacaacctta aaaagagatg gaagtgattt 120  
 ctctgcagcc ataattgggt cccttggtta ggctcgccag gtgaccatct ggactgatgt 180  
 tgatggggta tttagtgcag atcccagaaa agttagtgcg gctgtaatct taagcacatt 240  
 gtcgtatcag gaggcctggg aaatgtcata ttttggggca aatgtcttgc atccacgtac 300  
 tat 303

<210> 863  
 <211> 294  
 <212> DNA  
 <213> Zea mays  
 <400> 863  
 gtgaagtcag catatctttg aacttgatc catcgaaact atggagttgt gaattggttc 60  
 agcacaaaaa tgaacttgat gatgtcattg aagagcttga gaagatagca gttgttcac 120  
 tactgcagaa caggtcaata atatcttta tttgaaatgt gcagaggtcg tctttgattc 180  
 ttgaaaaggc tttcaatgtt ctacgaagaa acggtgtcaa tgtccagatg atatcgcaag 240  
 gggcgtccaa ggtgaacatt tccttggtgg tccatgacag tgaggcaaaa cagt 294

<210> 864  
 <211> 224  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 864  
  
 gttgctacca gtgaagtttag tgtttctgtg tcacttgatc catcaaagat ctggagtagg 60  
 gaactgatac agcaggaact tgaccatgta gttgaagagc ttgagaaaat agcaattggt 120  
 cgtctacttc agcagagggc gataatttca cttatcggaa atgtggagca atcgtnctc 180  
 atactagaaa agacgggacg tgtgctgagg aaaagtgggg ttat 224

<210> 865  
 <211> 240  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 865  
  
 tggagtgggtg gatgtggtca gcaagaagg gtaggtggag ctgagagcct acaagagggn 60  
 cccaccggtt cgcgcactat ctggttccga caacatcata gccttcacca cctcgaggta 120  
 caaggatcag cactgatcg tgcgagggtc gggggctggt gcggaagtga ctgcaggagg 180  
 cgtcttctgc gacatactgc gcctgtcttc ctaccttggg gccccctcgt agtctgtcaa 240

<210> 866  
 <211> 243  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 866  
  
 cttgggatta agagaaattc aggtttggaa agatgttgat ggtgttttaa catgtgaccc 60  
 aaatatccat cctaaggcaa aacctgtgcc atacttgaca tttgatgagg cagctgaact 120  
 tgcctatfff ggagcgcagg ttttgcatcc acaatcaatg cgccagcta gagaaggcga 180  
 tgtacctgtg agggttaaga atcttataac cgtcngccc ctggtaccct tatcataaag 240  
 cng 243

<210> 867  
 <211> 286  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 867  
  
 gaaggtcata attcttgcaa gggaaatctgg tttggggcctt gaactttctg atattcctgt 60  
 acgaagtctt gtgccggang cttnaagtca tgtacctcag ccgacgaata catgcagaag 120  
 ttaccatctt ttgacgagga ttgggcaaga gagaggaaaa atgctgaagc tgcgggagaa 180  
 gttctgcggt atgttggagt ggtgnatgtg gtcncaaaaa gggccnaggt gaantnngcc 240  
 ctnaaagggg ggccccccnt ttggnnaaaa ntggtcncaa aaaaaa 286

<210> 868  
 <211> 275  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 868  
  
 aagagaagct acaaactgaa gcagaacctg ccaatcttga taagtttggt catcatttgt 60  
 ctgagantca cttttttcct aacagagttt tggtagattg cacagcagat acaagtgttg 120  
 catctcacta ttatgattgg ctaaagaaaag gaatccatgt catcactcca aacaagaaaag 180  
 caaattcagg gccacttgac aggtatctta aacttagaac tcttcagcgt gcatcatata 240  
 ctcattactt ctatgaagca actgttggtg ctggc 275

<210> 869  
 <211> 241  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 869  
  
 ctttagtgat gttgttgctg aagcaaaaaa agcaggatac acagaaccag atccaagaga 60  
 tgatctgtct ggtactgatg ttgccaggaa ggtcataatt cttgcaaggg aatctggttt 120  
 ggggctgagc tttctgatat tcctgtacga agtcttgtgc cagangcact taagtcatgt 180  
 acctcagccg atgaatacat gcagaagtta ccatcttttg acgaggattg ggcaagagag 240



a

241

<210> 870  
 <211> 292  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 870

atggattaat gatcctgcta tacctatagt cactggcttt cttggcaagg gatggagatc 60  
 tgggtgcaata actanttggg caggggtggg agcgacttga cagctacaac cattggcaaa 120  
 gccttgggat taagagaaat tcaggtttgg aaagatgttg atgggtgttt aacatgtgac 180  
 ccaaatatcc atcctaaggc aaaacctgtg ccatacttga cattgatgag gcagctgaac 240  
 ttgcctattt ggagcgcagt ttgcatcca caatcaatgc ggccactaga ga 292

<210> 871  
 <211> 226  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 871

gggaatgccc aggcgggggtt caccttcgtc atgaagtctg gcggctcgtc gctcgcgtca 60  
 gccgagcgga tgcgggangt ggccggcctc atccttagct tcctcgacga gatgcctgtc 120  
 gccgtcctct ccgccatggg gaagaccacc aataacctn tcctaggacc ttccatttct 180  
 agctctcagc gcctgagtcg ggggtgctcg ttcttcgtta tagtaa 226

<210> 872  
 <211> 285  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 872

gtcattgatt cttgaaaagg cattcaacgt tctgcgaaga aatgggtgta atgtcnagat 60  
 gatctcaciaa ggggcgctca aggtgaacat atccttggta gtcaatgaca gtgaggcaaa 120  
 acagtgcgta caagccctcc attcagcgtt ctttgagaat ggattcttgt cggaggtaga 180  
 gggagctgac gtccccaga acggagcctc tctgaactca aatggcgctg tctatggaaa 240

ctagtcgact ctgcaactgc tttcttcaca atttgtgtac cattg 285

<210> 873

<211> 286

<212> DNA

<213> Zea mays

<400> 873

ccaaggcgtc cgaaatccct gagctcgctg tcatcaagga cctgcatctt aggacggttg 60  
atgagctcgg tttagatagg tcgattgttt caggtttatt ggatgaattg gagcaacttc 120  
ttaaaggagt tgctatgatg aaagagctga cccttaggac aagagattac cttgtttcct 180  
ttggtgaatg tatgtcgaca agaataattg ctgcatattt gaacaaactt gggaaaaaag 240  
cacgccatat gatgcattga tatggcttat aaccaccgat gatttc 286

<210> 874

<211> 293

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 874

ttcacaaatg cggatattct tgaagccact taccctgctg ttgcgaagag gctacatgaa 60  
gactggatgg atgaccctgc tattcctata gtcactgggtt ttcttgggaa gggatgtaaa 120  
tcatgtgctg tcaccacttt aaggcagggg tggtagtgac ttgacagcta caaccattgg 180  
caaagccttg gggattaaga gaaatccagg ttggaaggat gtagatgggtg tgtgacatgt 240  
gatacctnata tatatggcaa atgctatanc ccgtgcctac ttgactttgg atg 293

<210> 875

<211> 266

<212> DNA

<213> Zea mays

<400> 875

actgccaaagt cccttggcta tacagaacca gatccacgtg atgatctagg tggaatggat 60  
gtcgctagaa aggcatatgat cctggctagg cttcttgggc aacagataag catggagagt 120  
atcaatgttg aggtttatat cctagtgaat taggacctga tgcagtgtcc acaaaggact 180

tcctgaaagt ggtttagtgc aattgacaag agcatggaag aaagaatcag agcagcatct 240  
cgagaggaaa cgttctcgct acgtct 266

<210> 876  
<211> 343  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 876

ggctggttct aggacaaatg cttttaagtg atataggagt agatttgacc cagtggaaaag 60  
agaagctaca aactgaagca gaacctgcca atcttgataa gtttgttcat catttgtctg 120  
agaatcactt tttccctaac agagttttgg tagattgcac agcagataca agtgttgcat 180  
ctcactatta tgattggcta aagaaaggat ccatgtcatc actccaaaca agaagcaant 240  
cagggccatt gacaggttct taancttgac tcttcagggg cataattatc atacttctan 300  
gagnantgtg gnnngcccca nanatnnccn ngggtnnnan nag 343

<210> 877  
<211> 442  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 877

gngatctngn gnantacta ncttgngnan ntgngnggtn cacttnacnn cnannnnncat 60  
tggcnanncn ttgagattaa ganataactn tgtaggnaa gatgctgatg gtgntggaac 120  
atgtgaccga gatatacatc cttaaagctga acctgancca tacttgacat ctngatgaat 180  
cagctgaacn ngcctatttt ggagcgcagg aattgcatgc actatnnatg cggtcagngt 240  
tgagaaggcg atntacctgt gagggctaata gaattnttat aactcgncta gnctanggta 300  
cccttatcac taaaacntgn acgatatgag ttaagantgt tcagactngc attgtncctg 360  
aaaatgaata ttnaatgctt gatatatcca gtacagggta tgctttgcca agtaccggat 420  
naataanncc cntttaaggg aa 442

<210> 878  
<211> 285  
<212> DNA

<213> Zea mays  
 <223> unsure at all n locations  
 <400> 878

gnncaagacn tgtgccatac ttgacatttg atgaggcagc tgaacttgcc tatnttggag 60  
 cgcagggtttt gcatccacaa tcaatgcggc cagctagaga aggcgatgta cctgtgaggg 120  
 ttaagaattc ttataaccgt cgancccctg gtacccttat cactaaagca agagatatga 180  
 gtaagactgt tttgactagc attgttttga aatcaaatat tacaatgctt gatatagtca 240  
 gcacacgcat gcttggccag tacggttttc tagctaaggt ttttt 285

<210> 879  
 <211> 282  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 879

gncaaaacct gtgccatact tgacatttga tgaggcagct gaacttggcc tatnttggag 60  
 cgcagggtttt gcatccacaa tcaatgcggc cagctagaga aggcgatgta cctgtgaggg 120  
 ttaagaattc ttataaccgt cgagcccctg gtacccttat cactaaagca agagatatga 180  
 gtaagactgt tttgactagc attgttttga aatcaaatat tacaagcttg atatagtcag 240  
 cacacgcatg cttggccagt acggttttct agctaagggt tt 282

<210> 880  
 <211> 317  
 <212> DNA  
 <213> Zea mays

<400> 880

gaaccagctg atattgatag ttttgttcat catatatccg ataatcacgt atttccaaac 60  
 aaagtttttg tggaactgcac agcagataca agtgttgcat ccactatta taattgggta 120  
 aagaagggtta ttcatgtcat cacaccaa at aagaaagcaa attctgggcc acttgatcag 180  
 tacctgaaat tgcggactct gcaacgtgcc tcgtacactc attactttta tgaagcaact 240  
 gttggtgctg gcctcccaat cattagtacc ttgcgaggtc ttctggagac gggtgacaag 300  
 atactgcgta ttgaggg 317

<210> 881  
 <211> 315  
 <212> DNA  
 <213> Zea mays

<400> 881

ggatcagggtt gctgctctca aggaaaatat gaacattgat ctgcgtgtca ttggaataac 60  
 tggctcaagt acaatgcttt tgagcagaca cgggaataga ctttaaccag tggaaacaac 120  
 ttctaaaaaa ggaagcagaa ccagctgata ttgatagttt tgttcatcat ttatccgata 180  
 atcacgtatt tccaaacaaa gttttggtgg actgcacagc agatacaagt gttgcatccc 240  
 actattataa ttggttaaag aagggtattc atgtcatcac accaaataag aaagcaaatt 300  
 ctgggccact tgatc 315

<210> 882  
 <211> 288  
 <212> DNA  
 <213> Zea mays

<400> 882

aaccagctga tattgatagt tttgttcac atttatccga taatcacgta tttccaaaca 60  
 aagttttggt ggactgcaca gcagatacaa gtgttgcac cactattat aattgggttaa 120  
 agaagggat tcatgtcac acaccaaata agaaagcaaa ttctgggcca cttgatcagt 180  
 acctgaaatt gcggactctg caacgtgcct cgtacactca ttacttttat gaagcaactg 240  
 ttggtgctgg cctcccaatc atagtacctt gcgaggtctt ctggagac 288

<210> 883  
 <211> 292  
 <212> DNA  
 <213> Zea mays

<400> 883

ccaaaacgac acttgcatgtt ggcattcattg gacctggttt aattggtaga aactcctta 60  
 accagctcaa ggatcagggtt gctgctctca aggaaaatat gaacattgat ctgcgtgtca 120  
 ttggaataac tggctcaagt acaatgcttt tgagcgacac gggaatagac ttaaccag 180  
 ggaaacaact tctaaaaaag gaagcagaac cagctgatat tgatagtttt gttcatcatt 240

atccgataat cacgtatttc caaacaaagt tttggtggac tgcacagcag at 292

<210> 884  
 <211> 285  
 <212> DNA  
 <213> Zea mays

<400> 884

cactgggtta agtctattcc cgtggaaaca acttctaaaa aaggaagcag aaccagctga 60  
 tattgatagt tttgttcac ctttatccg ataatcacgt atttccaaac aaagttttgg 120  
 tggactgcac agcagataca agtggtgcat ccactatta taattgggta aagaagggta 180  
 ttcattgcat cacaccaa at aagaaagcaa attctgggcc acttgatcag tacctgaaat 240  
 tgcggactct gcaacgtgcc tcgtacactc attactttta tgagg 285

<210> 885  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<400> 885

cactgggtta agtctattcc cgtggaaaca acttctaaaa aaggaagcag aaccagctga 60  
 tattgatagt tttgttcac atttatccga taatcacgta tttccaaaca aagtttttgg 120  
 ggactgcaca gcagatacaa gtgttgcatc ccactattat aattgggtta agaaggggat 180  
 tcatgtcatc acaccaaata agaaagcaaa ttctgggcca cttgatcagt acctgaaatt 240  
 gcggaactctg caacgtgcct cgt 263

<210> 886  
 <211> 279  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 886

atttaataat ttcgaaggaa caaggggcatt cagtgatgtc gttgctgaag caaaagaggc 60  
 gggatacacn gaacctgacc caagagatga tctatctgga actgatgttg cccganaggt 120  
 cattatcctt gcaagggaat caggtttgag gcttgaactt tctgatattc ctgtgaagag 180  
 ccttgtgcca gaaacacttg cagcatgtc gtcagcagat gaattcatgc agaagctacc 240

atcctttgac gaggactggg ccaggcaacg catgatgct 279

<210> 887

<211> 256

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 887

tttantnntt tcgaaggaac aagggcattc agtgntgtcg ttgcngaagc aaaaganntg 60

ggatacactg aacctgaccc aaganntgat ctntctggaa ntgntgttgc ccgaaaggtc 120

attntccttg caagggaaac aggnttgagg cttgaacttt ctggntattc ctgtgaagag 180

ccttgngctn gaaacacttg cagcagctcg tcagcagaga gttcagcaga agctaccatc 240

ctttgacgag gactgg 256

<210> 888

<211> 322

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 888

gggagactgg atggatgacc ctgctattcc tatagtcact ggttttcntg gncaggggatg 60

taaatcatgt gctgtcacca ctttaggcag gggtagtagt gacttgacag ctacaaccat 120

tggcaaagcc ttgggattaa gagaaatcca ggtttggaag gatgtagatg gtgtgttgac 180

atgtgatcct aatatatatg caaatgctat acccgtgcc tacttgactt ttgatgaggc 240

tgctgagctt gcctactttg gtgcacaggt tttgcatccc caatcaatgc gaccggctag 300

ggatgggtgat attccagtga ga 322

<210> 889

<211> 105

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 889

gtgatcctaa tatatatgca aatgctatac ccgtgcccta cttgactttt gatgaggctg 60

ctgagcttgc ctacttttgt gcacagggtta nacatcccc agtca 105

<210> 890

<211> 279

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 890

gtgagtacaa cattactatt gtactgaagc aagaagactg cgtgcgggct ctgagagctg 60

cccactcaag gntcttcctc tccaaaacca cactggctgn tggcatcatt ggacctgggn 120

tgattggtcg cacattactt aatcagctga aggatcaggc tgctgtcctc aaggaaaata 180

tgaacattga tttgcgtgtc atgggaatag ctggttctag gacaatgctt ttaagtata 240

taggagtaga tttgaccagc tggaaagaga agctacnaa 279

<210> 891

<211> 282

<212> DNA

<213> Zea mays

<400> 891

gctatgcaaa tattaatgta agggcgatag ctcaagggtg cagtgagtag aacattacta 60

ttgtactgaa gcaagaagac tgcgtgcggg ctctgagagc tgcccactca aggttcttcc 120

tctccaaaac cacactggct gttggcatca ttggacctgg gttgattggt cgcacactac 180

ttaatcagct gaaggatcag gctgctgtcc tcaaggaaaa tatgaacatt gtttgcgtgt 240

catgggaata gctggttcta ggacaatgct ttaagtgt at 282

<210> 892

<211> 282

<212> DNA

<213> Zea mays

<400> 892

gttatccatg tttctgaaat cgaagagtgg aatatggtca aaagcctaca tatcaagacg 60

gtggatgaac ttggacttcc aagatctgta atacaagaca tgctagatga actggagcaa 120

ctattgaaag gtatcgctat gatgaaagag ctgacgccta ggaccagtga ctaccttgtt 180

tcatttgag aatgcatgtc caccaggatt ttttctgctt atttgaacaa aattcgtgtc 240



aaggcacggc agtatgacgc atttgatatt ggtttcatcac aa 282

<210> 893

<211> 270

<212> DNA

<213> Zea mays

<400> 893

gttatccatg tttctgaaat cgaagagtgg aatatgggtca aaagcctaca tatcaagacg 60

gtggatgaac ttggacttcc aagatctgta atacaagaca tgctagatga actggagcaa 120

ctattgaaaag gtatcgctat gatgaaagag ctgacgccta ggaccagtga ctaccttggt 180

tcatttggag aatgcatgtc caccaggatt tttctgctta tttgaacaaa attcgtgtca 240

aggcacggca gtatgacgca tttgatattg 270

<210> 894

<211> 493

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 894

gngnnnnnng gnaantgttn anttngcccg ccagtaccga tccaagaatt cccgggtcga 60

cccacgcgtc cgatcagctt gggctagata gatcaattgt ttgtggtttg ttggatgaac 120

ttgaacaact tcttaaggga attgctatga tgaaagagct gactcttagg acacgagatt 180

atctagtttc atttggtgaa tgcatgtcta caagaatatt tgctgcactt ttaaacaaaa 240

ttggagtaaa agctcggcag tatgatgcat ttgatcttgg ctttataact accgatgatt 300

tcacaaatgc ggatattctg gaagcaactt atcctgctgt tgcaaggagg ctacatgtgg 360

aatggattaa tgatcctgct atacctatag tcaactggctt tcttggcaag ggatggagat 420

ctggtgcaat aactaccttg ggcanggggtg gtaatgactt gacagctaca accattggca 480

aagccttggg aat 493

<210> 895

<211> 281

<212> DNA

<213> Zea mays

<223>        unsure at all n locations  
 <400>        895

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aaaganctgn ctcttaggac acgagattat ctagttgcag tnggtgaatg catggctaca   60
agaanattgg cctgcacttt naaacaaaat tggagtaaaa gtctcggcag tatgatgcat  120
gtnatcttgg cttgataact accgatgatt tcacaaatgc ggntattctg gaagcaactt  180
atcctgctgt tgcaaggagg cgacatgtgg aatggattaa tgatcctgcn agacctatag  240
tcantggcnt tcttggcaag ggatggagat ctggtgcaat a                        281
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<210>        896  
 <211>        299  
 <212>        DNA  
 <213>        Zea mays

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<400>        896
gcgcgggcgc ggaggtgact gcgggtggcg tcttctgcga catcctgcgg ctggcgtctt   60
accttggcgc tccttcttag agcttccact tacagttgtc aatttgaaga ggcagatgga  120
cagtgccctg catgatgcct ccgtgttttag gcttattatg gacttgctca aagttgttct  180
gaataagtgc caggaaataa ggcctctatc ttatttaggc ctctatcttc ggggtagctg  240
actaagtgtt gttatgctac ggaatccaga atctgtgaat tgaaatgaat gtaccgatg   299
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<210>        897  
 <211>        454  
 <212>        DNA  
 <213>        Zea mays

<223>        unsure at all n locations  
 <400>        897

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actttacttg gccngccagg tcaagatncc cgggtcgacc cacgntcca ccgcttcngc   60
cctcncgctt tcgttgtcat gaggagcctc accgtggcaa gccgccaccc gggcgccgct  120
ttctctaccc gccgccgcc ccttcttcac cccgccgcag ccggaaggga ctcgaccttc  180
cagcggtgct ggcgatggga aaaaactcag gacagctcct tcgggagctc actaaggacc  240
agccgccttc caagaactgt gcacggagat attttgaaga atttgctcgc accaactgct  300
ggtgctgttt cagttgagca agctgaagct attgctgacc tcccaaaagg tgaaatgtgg  360
tcggtgcaca agtttggtag cacatgcatg gggacctctg agagaattca caatgttgct  420
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gataaaaancc ctnnngattc cttcgaanaa ggaa

454

<210> 898

<211> 310

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 898

ccgccctctc gctttcgttg tcatgaggag cctcaccgtg gcaagccgcc acccnggcgc 60  
cgctttctct acccgccgcc gcccccttct tcaccccgcc gcagccggaa aggactcgac 120  
cttccagcgg tgctggcgat gggaaaaaac tcaggacagc tccttcggga antcactaag 180  
gaccanccgc cttccaagaa ntgtgnacgg agatattttg aagnatttgc tcgcaccaac 240  
tgctggtgct gtttcagttg agcaagctga agctattgct gacctccaa aaggtgacat 300  
gtggtcgggtg 310

<210> 899

<211> 276

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 899

tatgatgtga caggnacttg atcatgtcgt tgaagagctt aaaaaatttg cagttgttca 60  
tctgtgcaa cgtagatcga tcattctact gatagggaat gtacagcgat cgtcattgat 120  
tcttgaaaag gcattcaacg ttctgcgaag aaatggtggt aatgtccaga tgatctcaca 180  
aggggcgtcc aaggtgaaca tatccttggg agtcaatgac agtgaggcaa aacagtgcgt 240  
acaagccctc cattcagcgt tctttgagaa tggatc 276

<210> 900

<211> 240

<212> DNA

<213> Zea mays

<400> 900

tgaattgatc cagcaggaac ttgatcatgt cgttgaagag cttaaaaaat ttgcagttgt 60  
tcattctgctg caacgtagat cgatcatctc actgataggg aatgtacagc gatcgtcatt 120

gattcttgaa aaggcattca acgttctgcg aagaaatggt gttaatgtcc agatgatctc 180

acaaggggcg tccaaggtga acatatacctt ggtagtcaat gacagtgagg caaaacagtg 240

<210> 901  
<211> 279  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 901

ggagcgtcac ccggaagtat gggcccgcg cgcgcgccag cggcgccgta gttgtcgaca 60

acagctccgc gttccggatg gngcccgang tgcgcgtcgt catccccgag gtcaaccccg 120

aggccatggc gaacgtccgc ctccggcagg gggcgattgt ggcaaaccg aattgctcga 180

ccatcatctg cntcatggct gccacgccgc tccatcgcca cgctaagggtg ttaaggatgg 240

ttgtcagcac ataccaagca gcaatggtgc ggggtgctgc 279

<210> 902  
<211> 254  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 902

cagtgggtag gattcgtcag gacttgtccc tggatgataa ccgaggggtg gacatatttg 60

tgtgtggtga tcagatacgt aaagggtgccg cactcaatgc cgttcagatt gctgaaatgc 120

tgctgaagtg aatgcgactt aaccctcttg tccctccctc cctccctgtc cctaattgct 180

ctgatcaaat gctggactgt actctgatta gtttgcctc natTTTTggtc gcctgttctg 240

tattctgcgg tgct 254

<210> 903  
<211> 496  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 903

ggtnnnnnaa ctccccgc nccggtacgg tncaaaattc ccggnncgac ccacgcgtca 60

caagatgttg tgtacacgga ttggatagat cgtccacaac ctcgattgga ccgtcataag 120

gaaatggggtt tacagtgacg ctgggaagag tgaggggaatg ttccgtgatg gacataagtt 180  
 ggtattgttt ggacataaca cagtggtagg agctgcgggt ggttcgatta ttantgaaag 240  
 ttgagtgtcg ccaaaggggtt tattgcacaa aaaggaaaac aaagtgtata tgcggagtat 300  
 ctcgtcacta gtgtgtgtca ctagacagaa tagtgtgttt gtgttgtttg tgtcgtgttt 360  
 tccaatgaan gacattgacc actagaacta tgtgaaaaaa aaaannagtc aacacaaaga 420  
 ntannaaaaa aggnccggccg ctctagagga tncaagctta cgtacccgtc atnacgtcan 480  
 aacccttcna aaatgt 496

<210> 904  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 904

gtaactgcga cttgcatacg ggttcctgtg atgcgcgcac atgctgaaag tgtnaagnta 60  
 cagtttgaaa agccacttga tgagcgcgta tgctcctcaa gtaggcctta atgagaactc 120  
 aaagagagag ttctgggaag gcctggagga catggtagt agtgtgccag ttggcgagaa 180  
 gctcttcata ggaggagatc tcaatggcca tgatactgca agagaaattt tgagagcagc 240  
 tcctgggtgtt accattattg atgaccgagc ttccaatcgc tttcctacac ctctggaggt 300  
 atcagacaaa gatgacgtan cantgggtag gattcgtcag gacttgtcct ggatggtaac 360  
 cganggtttg gacatatttg tgtgttggtg atcagatacg taaangcgcc ggactnaatg 420  
 ccgtcaaaat tggtt 435

<210> 905  
 <211> 287  
 <212> DNA  
 <213> Zea mays

<400> 905

atcaccagag tgaattagca gaagaattgg ctgaaaggaa gcatctcttc tgtgcacgcc 60  
 caciaacatt gggagagacc atccgggcaa tggacctaga gacactgggtt cctatgagcc 120  
 aggggatgcc aaaccagtcg tcaccctgat caacagatth cttggcttcc agttgattga 180

cgaatctatt cggttggtct caatccatgt ggattagatg gtattgcgtc ggtttaattc 240  
catagcaagt caaaatacat cctaaaccca ctcaatccac tccaatc 287

<210> 906  
<211> 307  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 906

ccgcgaccga tcgagcgaan ancccttccc gcgccgacgc cgaaacccta gtcctcttta 60  
cgccatggcc accgtgtcgc tcaactccgca ggcgggtcttc tccaccgagt ccggcgggcgc 120  
cctgggcttc tgccaccatc ctccgcttcc cgccaaactt cgtacgccag ctcagcacca 180  
aggcacgacg caactgcagc aacatcggcg tcgcgcagat cgtcgccgcc gcgtgggtccg 240  
actgcctcgc tgctcgccgc ctccgcggcg gcggatgtca gcgcaattcc taacgctaag 300  
gttgcgg 307

<210> 907  
<211> 265  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 907

aaagtacatt gctggacaca acgatgttat tggaggatgc gtcagtggca gagtgantgg 60  
tttccaaagt cntatattat caccatgtgg ttggtgggtgt ctaaccccga atgctncgta 120  
ctancctncn ncngaaacct ncatctccgt gtgcatgctg aataaacntg cttncggatg 180  
gccanttttt agaggaacat ctaaagatgc cgngctacta tcctgggtgc tagccaaccc 240  
tgaacatcca ttgcccagag ncaat 265

<210> 908  
<211> 267  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 908

attttcagta aatttggtat cgaacacaca ctgaacatcc ctgcaacttt tgttggttaag 60

angttgtttg tttaggacta taatctgtct agattatata atccaacaaa taatgtgtta 120  
 tttgctggat tatataatct ggacagatta tattctcaaa caaacacccg ctaattcttc 180  
 caggggacaa tcggagcgtg gaaacgatgc caaccaggac atactttaca accagaacgt 240  
 ccaaagtgtg gtgccgtacc attcgag 267

<210> 909  
 <211> 96  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 909

tacaaatcca tttctcagat gcattgatat tgaacatgta tccaaatatg tgccataggc 60  
 aaggganngt ngccttngaa tngccngnan ttncng 96

<210> 910  
 <211> 352  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 910

accaaatcat gcatggtact gaaatgagat gcaattccaa ttctattggt tggatgtcac 60  
 tgaattgtac gttctaattc cacgcaatac cgaggnnctg angctttgta ttgggagagg 120  
 atgttctagt tatagtctaa ttctagggaa ttaggcctct gatnccaaat ctcaattcca 180  
 cgagcaanca aacaacagaa tttagaaaaa ctgattctaa ttcccaattc tgtgctccaa 240  
 tatctatatc caaccggggg gttagtatta tgtagtttca ctggctcttc tagttgtgct 300  
 ttatganatc tttgngacct gaagataaat ttgagttttc aggaaggnac tt 352

<210> 911  
 <211> 503  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 911

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acgcgtccgg agatcttcat caggggaaat tcgcatggta tgggagacta cggcccgtta 120  
cctttgaacc ctctagtaga gtcttgagaa cccttgcatg cattcgctgt tgtatgctgc 180  
catgctgttg aatttagctg tactacacca gatagtata cccgaactca cggagttaat 240  
ggaaccggat agaaagctgc ccatgtagtt tgggtgttgt tgcttacgtt gtggatttac 300  
tgtagtgact tgtctaagtc tccgtttctc cggttggtta tcgaccatat tggaggcatg 360  
gaattaaaat aagttcaata ccaaatcaaa tatagtattg aaatgagatg taattcaatt 420  
ctattgtttg gatgtcgctg atttggaatt aaaaaanaan nannnaannn nnnnnnnnnn 480  
nnnnnnnnnn nnnnnnnnnn nna 503

<210> 912  
<211> 497  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 912

ggtttttaan gggggggagg aagggaaagc tttcccggtc cggattcccg ggtcgaccca 60  
cgcgtcccga gttaaaacat ctttttgng gtgggnaaat atggaaccta tttcangtta 120  
nttggcctng nttggatttg ancccgtgng gtggagtaat ctaatactcc gcttgggatg 180  
tcgatattgg agaggatgga attgaattgg ggttgaatac caaatcaggc atgatattga 240  
aatgagatat aatttcaatt ctattgtttg gatgtcactg aattggagtt tggaattatg 300  
cggctcaatt ctaggcaata ccgagggggg gaggctttgt attggaagag ggggtttcta 360  
gttatagtct aatttcaggg aattgggcct ctgattccaa atctcaattc cacatgcaac 420  
gaatcaacat aatttangaa agctgattcc aattctcaat tctgtgattc aatctctaca 480  
tccaaacggg gtataag 497

<210> 913  
<211> 548  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 913

gnnnngcgca gagtttgtn gggngnnggg gggaaggang natntgctnn tccgggtccgg 60



aattcccggg tcgacccacg cgtccgcgcg agcggccccc tttttttttt tttttttttt 120  
ttttttttta ctaaaaccta tngnctgang ntcaggctaa tgacattttg tctttacaat 180  
actgtgatgc aataaaactg ggcaaaccat tgataccacc gtatacagta actcaatacc 240  
atccaattct atgaggatta aaaatgtatt ggaatggatt ggtatgtatt ttgacttgct 300  
ataaaattta accaactnaa taccatccaa ttcacttaga ttaacgggtga aacgaacaag 360  
gcctaagggg agtggttaaca gtctaacatc attgtacaac agcctttccg aagcccatag 420  
acattgtgag acaagatccg taaaccatga atcgttcttc acttaggatg accatnttag 480  
ctggtcacga aatgggtaccg ggaatcacia atntttnaac gtcccaaang aacgatcctg 540  
gangctgt 548

<210> 914

<211> 463

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 914

cataaataag tcgtgttttg aagggttctn ntgaataaga taaaggctta gatacattna 60  
gntgtatgaa cgggttnttt ttaggtgtat ctagtgtttg gagaaccgca acatgatgtc 120  
tatgttgtac atgacctaag tgcatttctc taccaccagc actcttgccc aagcatggta 180  
gaccatttgt gtttaatgtt cattacatgc taataaaaga tactgggtggg aagggttaagg 240  
ttatgtttta ggcacaccaa acaagaagga gtctaangaa attaagnnac caagggtctct 300  
agtngagtaa gggggtagtc tttccattaa aattgactgg ctaaaattta agctcgggct 360  
cttatgngng ttngngnaac ctatgagaac cgacngnaag gnanttgggn aatcagtnag 420  
tanttgaac naaacggtnt ggtaaagtga accctttttc cgt 463

<210> 915

<211> 267

<212> DNA

<213> Zea mays

<400> 915

agctgaagga tttcttcaag cagtaggtgt gaagacctga agatcagctt tatctctctt 60  
ttgttctgc tagggccttc tcggttattc caattccatg tggattgaag tgtattaaaa 120

tggattttga cttgttatgg atttaaataca acttaatacc actcaatcca catggattat 180  
 tggtgaaaca aacaagccct agtcgaaatt cttgttaagt tggtagtttg tcagacccga 240  
 aatagagttt tttgggtttc gaatgga 267

<210> 916  
 <211> 284  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 916

attttgaggc atggcagaca actgagggtcg aaatagcgtg gtagcttgga tctgcacatc 60  
 tatatgattg agggcctggt gtttaggatt ataatctgcc cagattatat aacctatctt 120  
 attttgaact aagtgttagt tcaaaataag ttagattata taatatggac aaattatatt 180  
 cccaatcaaa caggctatga ttggacttac tgatacccat tgagtagaac tggatcttgg 240  
 acagtntncg gggaaaacgg atggacctta attgaaaatt tgcg 284

<210> 917  
 <211> 247  
 <212> DNA  
 <213> Zea mays

<400> 917

ctgagggtcga aatagcgtgg tagcttggat ctgcacatct atatgattga gggcctggtg 60  
 tttaggatta taacctgccc agattatata acctatctta tttgaactaa gtgttagttc 120  
 aaaataagtt agattatata atctggacaa attatatcc caatcaaaca ggctatgatt 180  
 ggacttactg ataccattt gagtagaact gatcttgaca ggtatccgag aaaacgatga 240  
 ccttaat 247

<210> 918  
 <211> 254  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 918

caactggagg tcgaaatagc gtggtagctt ggatctgcac atctatatga ttganggcct 60

ggtgttttagg attataatct gccagatta tataacctat cttattttga actaagtgtt 120  
 agttcanaat aagtttagatt atataatatg gacaaattat attcccaatc aaacaggcta 180  
 tgattggact tactgatacc catttgagta gaactgatct tgacaggtat ccgagaaaac 240  
 gntgacctta attg 254

<210> 919  
 <211> 508  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 919

agangttttt nggntggggn ggnnganaag ttaccgggtc cggattcccg ggtcgaccca 60  
 cgcgtccgct gggaagaagg atagccacgg atgctatcac caccgaggta gtgaacacgt 120  
 cggcctactg gttcaacaac tcgcaagagc taatcgactt taaggagggg aggcattgcta 180  
 gcttcgagta tgggaggtat gggaacccga ccacggaggc attagagaag aagatgagcg 240  
 cactggagaa agcagagtcc accgtgtttg tggcgtcagg gatgtatgca gctgtggcta 300  
 tgctcagcgc acttgtccct gctggtgggc acattgtgac caccacggat tgctaccgca 360  
 agacaaggat ttacatggaa aatgagctcc ctaagagggg aatttcgatg actgtcatta 420  
 ggctgtgta catggatgct ctccaaaatg cgttggacaa caataatgta tctcttttct 480  
 tcacggagac tntacaaat ccatttct 508

<210> 920  
 <211> 316  
 <212> DNA  
 <213> Zea mays

<400> 920

ggagactccc acaaatccat ttctcagatg cattgatatt gaacatgtat caaatatgtg 60  
 ccatagcaag ggagcgttgc ttgtatcga cagtactttt gcctccccta tcaatcagaa 120  
 ggactgact ttaggcgctg acctagtat tcatctgca acaaagtaca ttgctggaca 180  
 caacgatgtt attggaggat gcgtcagtgg cagagatgag ttggtttcca aagtccgtat 240  
 ttatcaccat gtggttggtg gtgttctaaa cccgaataac actgctcttc ggatggccca 300

gttttttagag gaacat

316

<210> 921  
<211> 300  
<212> DNA  
<213> Zea mays

<400> 921

ttc gatgact gtc attaggc ctg ctgacat ggatgctcta caaaatgcgt tggacaacaa 60  
taatgtatct cttttcttca cggagactcc cacaaatcca tttctcagat gcattgatat 120  
tgaacatgta tcaaatatgt gccatagcaa gggagcgttg ctttgtatcg acagtacttt 180  
tgcctcccct atcaatcaga aggcactgac tttaggcgct gacctagtta ttcattctgc 240  
aacaaagtac attgctggac acaacgatgt tattggagga tgcgtcagtg gcagagatga 300

<210> 922  
<211> 271  
<212> DNA  
<213> Zea mays

<400> 922

cttgttccgg ctgggtgggca cattgtgacc accacggatt gctaccggaa aacaaggatt 60  
tacatggaaa ctgagctccc caagagggga atttcgatga ctgtcattag gcctgctgac 120  
atggatgctc tacaaaatgc gttggacaac aataatgtat ctcttttctt cacggagact 180  
cccacaaatc catttctcag atgcattgat attgaacatg tatcaaatat gtgccatagc 240  
aaggggagcgt tgctttgtat cgacagtact t 271

<210> 923  
<211> 266  
<212> DNA  
<213> Zea mays

<400> 923

cacaaatcca tttctcagat gcattgatat tgaacatgta tcaaatatgt gccatagcaa 60  
gggagcgttg ctttgtatcg acagtacttt tgcctcccct atcaatcaga aggcactgac 120  
tttaggcgct gacctagtta ttcattctgc aacaaagtac attgctggac acaacgatgt 180  
tattggagga tgcgtcagtg gcagagatga gttggtttcc aaagtccgta tttatcacca 240

tgtggttggt ggtgttctaa acccga 266

<210> 924  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<400> 924

tgctcagtc acttggtccg gctggtgggc acattgtgac cacacggatt gctaccggaa 60  
 aacaaggatt tacatggaaa ctgagctccc caagagggga atttcgatga ctgtcattag 120  
 gcctgctgac atggatgctc tacaaaatgc gttggacaac aataatgtat ctcttttctt 180  
 cacggagact cccacaaatc catttctcag atgcattgat attgaacatg tatcaaatat 240  
 gtgccatagc aaggggagcgt tgc 263

<210> 925  
 <211> 238  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 925

gcgtaacctg ctcgggtccg acgccagcct cgccgtccac gcgggggaga ggctgggaag 60  
 aaggatagcc acggatgcta tcaccacgcc ggtagtgaac acgtcgggct actggttcaa 120  
 caactcgcaa gagctaactg actttaagga ggggagggcat gctagcttcg agtatgggag 180  
 gtatgggaac ccgaccacgg aggcattaga gaagaagatg agcgccactgg agaaagca 238

<210> 926  
 <211> 332  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 926

gccgcaactg cagcaacatc ggcgtcgcgc agatcgtcgc cgccgcgtgg tccgactgcc 60  
 ccgccgcctc cgcggcgcgg aggtcagcgc aattcccaac gctaaggttg cgcaaaccga 120  
 ccgccgtcgt cttggccgag cgtaacctgc tcgggtccga cgccagcctc gccgtccacg 180  
 cggggganag gctgggaaga aggatcgcca cggatgcgat caccacaccg gtagtgaaca 240

cgtcggccta ctggttcaac aactcgcaag agctaatacga ctttaaggag gggaggcatg 300  
ctagcttcga gtatgggagg tatgggaacc cg 332

<210> 927  
<211> 226  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 927

ctatgctcag tgcacttggt ccggctgggtg ggcacattgt gaccaccacg gattgctacc 60  
ggaaaacaag gatttacatg gaaactgagc tccccaaagag gggaatttcg atgactgtca 120  
ttaggcctgc tgacatggat gctctacaaa atgcgttga caacaataat gtancccttt 180  
tcttcacgga gactcccaca aatccatttc tcagatgcat tgatat 226

<210> 928  
<211> 228  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 928

gatgactgtc attaggcctg ctgacatgga tgctctacaa aatgcgttgg acaacaataa 60  
tgtatctctt ttcttcacgg agactcccac aaatccatttc ctcagatgca ttgatattga 120  
acatgtatca aatatgtgcc atagcaaggg agcgttgctt tgtatcgaca gtacttttgc 180  
ctcccctatc aatcagangg catgacttta ggcgtgacc tagttatt 228

<210> 929  
<211> 501  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 929

gnnagnnaga ggttgatacg gaacgggggn ttaatggaat gtcgtaccg gtccggaatt 60  
cccgggtcga cccacgcgtc cgggttattg gaggatgcgt cagtggcaga gatgagttag 120  
tttccaaagt tcgnatttac caccatgtag ttggtggtgt tctaaacccg aatgctgcgt 180  
accttatacct tcgaggatatg aagacactgc atctccgtgt gcaatgtcag aacgacactg 240

ctcttcggat ggcccagttt ttagaggagc atccaaagat tgctcgtgtc tactatcctg 300  
gcttgccaag tcaccctgaa catcacattg ccaagagtca aatgactggc tttggcggtg 360  
ttgttagttt tgagggttgc ggagactttg atgctacgag gaaattcatt gattctgtta 420  
aaatacccta tcatgcgcct tcttttgaag ctgtgagagc ataattgatc agcctgccat 480  
catgtcctac tgggattcaa a 501

<210> 930  
<211> 489  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 930

aacgttacgc cggnccgtag ccgtccaaaa ttcangggtc gaccacgcg tccggacaac 60  
ctgatcaggt tcagcattgg agtggaggat tttgaggacc ttaagaatga tcttggtcag 120  
gccctcgaga agatataagc tccaatccat ttgcattaat aaagttatga ggtgatgggt 180  
gtctggatct tgtagagatt tgtgatgata catgagctgt tgactgcgat taagttctct 240  
tgtgcttatt ttattctttg aattcaataa gctgtgggtg ctgcatcttg catgtagtgt 300  
tggaactaat ttactttgtc aaattacaat agtttgggtcc catgtacttg tgtccgcgcc 360  
tccgcgggtg tgcccccaag tgtttttgtg tcatttgctg tgtaatgtga gattaagggc 420  
acgatgtcct taatcaccat aataaatcca agccttaaata gtaaggattc tgggttgggg 480  
atgaanaac 489

<210> 931  
<211> 340  
<212> DNA  
<213> Zea mays

<400> 931

tttaaaatac cctatcatgc gccttctttt ggaggctgtg agagcataat tgatcagcct 60  
gccatcatgt cctactggga ttcaaaggag cagcgggaca tctacgggat caaggacaac 120  
ctgatcaggt tcagcattgg tgtggaggat ttcgaggatc ttaagaacga tctcgtgcag 180  
gccctcgaga agatctaagc actctaata gtttgtattg acaaaatcat gaggtgatgg 240

ctgtcttggg tcttgtcaag atctgtgaca atgatatgag ctgatgactg cgaataagtt 300  
ctcttttggc tatttatccg tcaaatccat aagctgtgat 340

<210> 932  
<211> 303  
<212> DNA  
<213> Zea mays

<400> 932  
ctgcatctcc gtgtgcaatg tcagaacgac actgctcttc ggatggccca gtttttagag 60  
gagcatccaa agattgctcg tgtctactat cctggcttgc caagtcaccc tgaacatcac 120  
attgccaaga gtcaaatgac tggctttggc ggtgttggtta gttttgaggt tgctggagac 180  
tttgatgcta cgaggaaatt cattgattct gttaaatac cctatcatgc gccttctttt 240  
ggaggctgtg agagcataat tgatcagcct gccatcatgt cctactggga ttcaaaggag 300  
cag 303

<210> 933  
<211> 299  
<212> DNA  
<213> Zea mays

<400> 933  
tttacattta aggcattgat ttattatggt gattaaggac atcgtgcctt aatctcacac 60  
tacacagcaa atgacacaaa aacactaggg gcacaaccgc ggaggcgagg acacaagtac 120  
atgggaccaa actattgtaa ttgacaagt aaaattaagt ccaacactac atgcaagatg 180  
cagcaaccac agcttattga attcaaagaa taaaataagc acaagagaac ttaatcgag 240  
tcaacagctc atgtatcatc acaaatctct acaagatcca gacaaccatc acctcataa 299

<210> 934  
<211> 345  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 934

gggaacatct aaagattgcc cgtgtctact atcctggcct gcctagccac cctgaacatc 60  
acattgcaa gagtcaaatg actggctttg gtggtgtggt tagttttgag gttgctggag 120



actttgatgc cacaaggaaa ttcatcgatt ctgttaagat accctatcat gccccttctt 180  
 tnggaggctg tgagagcata attgatcagc ctgctatcat gtcctactgg gattcaaagg 240  
 agcagaggga catctatggg atcaaggaca acctgatcag gttcagcatt ggagtggagg 300  
 ttttgaggac cttaagaatg atcttggtca ggccctcgag aagat 345

<210> 935

<211> 274

<212> DNA

<213> Zea mays

<400> 935

agtcaaata ctggctttgg cgggtgtgtt agttttgagg ttgctggaga ctttgatgct 60  
 acgaggaaat tcattgattc tggtaaaata ccctatcatg cgccttcttt tggaggctgt 120  
 gagagcataa ttgatcagcc tgccatcatg tcctactggg attcaaagga gcagcgggac 180  
 atctacggga tcaaggacaa cctgatcagg ttcagcattg gtgtggagga tttcgaggat 240  
 cttaagaacg atctcgtgca ggccctcgag aaga 274

<210> 936

<211> 306

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 936

gttggtttcc aaagtccgta tttatcacca tgtggttggg ggtgttctaa acccgaatgc 60  
 tgcgtacctt atccttcgag gcatgaaaac acttcattc cgtgtgcaat gtcagaataa 120  
 nactgctctt cggatggccc agtttttaga ggaacatcta aagattgccc gtgtctacta 180  
 tcctggcttg cctagccacc ctgaacatca cattgccaag agtcaaata ctggctttgg 240  
 tgggtgtggtt agttttnagg ttgctggaga ctttgatgcc acaaggaaat tcatcgattc 300  
 tgttaa 306

<210> 937

<211> 265

<212> DNA

<213> Zea mays

<400> 937

ccaccatgta gttggtggtg ttctaaaccc gaatgctgcg taccttatcc ttcgaggat 60  
gaagacactg catctccgtg tgcaatgtca gaacgacact gctcttcgga tggcccagtt 120  
tttagaggag catccaaaga ttgctcgtgt ctactatcct ggcttgccaa gtcaccctga 180  
acatcacatt gccaaagagtc aaatgactgg ctttggcggg gttgttagtt ttgaggttgc 240  
tggagacttt gatgctacga ggaaa 265

<210> 938

<211> 322

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 938

ctattggtgg tgtggttagt tttgaggttg ctggagactt tgatgccaca aggaaattca 60  
tcgattctgt taagatacnc tatcatgccc cttctttcgg aggctgtgag agcataattg 120  
atcagcctgc tatcatgtcc tactgggatt caaaggagca gagggacatc tatgggatca 180  
aggacaacct gatcagggttc agcattggag tggaggattht tgaggacctt aagaatgatc 240  
ttgttcaggc cctcgagaag atataagctc caatccattht gcattaataa agttatgagg 300  
tgatggttgt ctggatcttg ta 322

<210> 939

<211> 283

<212> DNA

<213> Zea mays

<400> 939

cattgccaag agtcaaata ctggcttttg cgggtgttgtt agttttgagg ttgctggaga 60  
ctttgatgct tacgagggaa attcattgat tctgttaaaa taccctatca tgcgccttct 120  
tttgagggtg gtgagagcat aattgatcag cctgccatca tgtcctactg ggattcaaag 180  
gagcagcggg acatctacgg gatcaaggac aacctgatca ggttcagcat ggtgtggagg 240  
attcaggat cttaagaacg atctcgtgca ggccctcgag aag 283

<210> 940

<211> 282

<212> DNA  
 <213> Zea mays  
 <400> 940  
 ctttagatgt tcctctaaag attgcccggtg tctactatcc tggcttgcct agccaccctg 60  
 aacatcacat tgccaagagt caaatgactg gctttggtgg tgtgggttagt tttgagggtg 120  
 ctggagactt tgatgccaca aggaaattca tcgattctgt taagataccc tatcatgccc 180  
 cttcttttcgg aggctgtgag agcataattg atcagcctgc tatcatgtcc tactgggatt 240  
 caaaggagca gagggacatc tatgggatca aggacaacct ga 282

<210> 941  
 <211> 315  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 941

gggattcaaa ggagcagagg gacatctatg ggatcaagga caacctgac aggttcagca 60  
 ttggagtgga ggattttgag gaccttaaga atgatcttgt tcangccctc gagaagatat 120  
 aagctccaat ccatttgcac taataaagtt atgangtgat ggttgtctgg atctttaga 180  
 gatttgtgat gatacatnag ctntttactg ngaataagtt ctcttngct taatttantc 240  
 tttgnattca ataancgtgn ggttgcttgg aaaaaaaaaa aanntnnnn nnnnnntnnn 300  
 tttttnnnnt nnnnt 315

<210> 942  
 <211> 261  
 <212> DNA  
 <213> Zea mays

<400> 942  
 atttatcacc atgtggttgg tgggtttcta aaccggaatg ctgcgtacct tatccttcga 60  
 ggcatgaaaa cacttcatct ccgtgtgcaa tgtcagaata aactgctct tcggatggcc 120  
 cagtttttag aggaacatct aaagattgcc cgtgtctact atcctggctt gcctagccac 180  
 cctgaacatc acattgcaa gagtcaaag actggctttg gtggtgtggt tagttttgag 240  
 gttgctggag actttgatgc c 261

<210> 943  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 943

ttagggcgct gacctagtta ttcattctgc aacaaagtac attgctggnc acaacgatgt 60  
 tattggagga tgcgtcagtg gcanagatga gttggnntcc naagncgtat ttatcaccat 120  
 gtggttggtg gtgtcctaaa cccgaatgct gcgtacctta tccttcgagg catgaaaaca 180  
 cttcatctcc gtgtgcaatg tnagaataac actgctcttc ggatggccca gtttttagag 240  
 gaacatctaa agattgcccg tgtctactat cctggct 277

<210> 944  
 <211> 250  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 944

tgcgtcagtg gcagagatga gttagtttcc aaagttcgta tttaccacca tgtagttggt 60  
 ggtgttctaa acccgaatgc tgcgtacctt atccttcgag gtatgaagac actgcatctc 120  
 cgtgtgcaat gtcagaacga cactgctctt cggatggccc nngttttaga ggagnatcca 180  
 aagatttcgc gnggtcaagt atccgggctt gccaaatcac cctgaacatc acattgccaa 240  
 gagtcaaattg 250

<210> 945  
 <211> 303  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 945

aggaaatcat cgattctgtt aagaaaccct atcatgcccc ttctttcgga ggctgtgaga 60  
 gcataattga cagcctgcta tcatgtctac tgggattcaa aggagcagag gggcatctat 120  
 gggatcaagg acaaccttga caggtcagca ttggagtggg ggattttgag gaccttaaga 180  
 atgatcttgn tcaggccctc gagaagatat aagctccaat ccatttgcac taataaaggt 240

atgaggtgat ggggtggctgg atcttgagag attgngatga tncatgagct gttgctgcna 300  
tta 303

<210> 946  
<211> 239  
<212> DNA  
<213> Zea mays

<400> 946

ctatcatgcc ccttctttcg gaggtgtga gagcataatt gatcagcctg ctatcatgtc 60  
ctactgggat tcaaaggagc agagggacat ctatgggatc aaggacaacc tgatcagggtt 120  
cagcattgga gtggaggatt ttgaggacct taagaatgat cttgttcagg ccctcgagaa 180  
gatataagct ccaatccatt tgcattaata aagttatgag gtgatggttg ctggatcctt 239

<210> 947  
<211> 248  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 947

atztatcacc atgtggttgg tgggtgttcta aacccgaatg ctgcgtacct tatccttcga 60  
ggcatgaaaa cacttcatct ccgtgtgcaa tgtcagaata aactgctct tcggatggcc 120  
cagtttttag aggaacatct aaagattgcc cgtgtctact atccnggctt gcctagccac 180  
ccngaacatc acattgccaa gagtcaaatg actggctttg gtgggtgtgg tagttttgag 240  
gttgctgg 248

<210> 948  
<211> 223  
<212> DNA  
<213> Zea mays

<400> 948

gatcagcctg ctatcatgtc ctactgggat tcaaaggagc agagggacat ctatgggatc 60  
aaggacaacc tgatcagggtt cagcattgga gtggaggatt ttgaggacct taagaatgat 120  
cttgttcagg ccctcgagaa gatataagct ccaatccatt tgcattaata aagttatgag 180

gtgatggttg tctggatctt gtagagattt gtgatgatac atg 223

<210> 949

<211> 236

<212> DNA

<213> Zea mays

<400> 949

ggagactttg atgccacaag gaaattcatc gattctgtta agatacccta tcatgcccct 60

tctttcggag gctgtgagag cataattgat cagcctgcta tcatgtccta ctgggattca 120

aaggagcaga gggacatcta tgggatcaag gacaacctga tcagggttcag cattggagtg 180

gaggattttg aggaccttaa gaatgatctt gttcaggccc tcgagaagat ataagc 236

<210> 950

<211> 181

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 950

gctctgtggc ttataaacag ggattcaaag gagcagaggg acatctatng gatcaaggac 60

aacctgatca ggttcagcat tggatggagg attttgagga ccttaagaat gatcttggtc 120

aggccctcga gaagatataa gctccaatcc atttgcatta ataaagtat gaggtgatgg 180

t 181

<210> 951

<211> 178

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 951

cacaacgatg ttattggagg atgcgtcagt ggcagagatg agttggtttc caaagtccgt 60

atztatcacc atgtggttgg tgggtgttcta aaccggaatg ctgcgtacct tatccttcga 120

ggcatgaaaa cacttcatct ccgtgtgcaa tgtcagaata aactgtctct tcggangg 178

<210> 952

<211> 308

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 952

ancgaanacn gctccccgcg cgcgcgcaa aaccctagct tctcctactc catggccact 60

gtctcgctca ccccgagggc tgtcttctcc acggagtccg gtggcgccct ggcctctgct 120

accatcctcc gctttccgcc aaactttgtc cgccagctta gcaccaaggc acgccgcaac 180

tgcagcaaca tcggcgtcgc gcagatcgtc gccgcgcggt ggtccgactg cncgcngcc 240

tccgcggcgc ggaggtcagc gcaattccca acgctaagggt tgcgcaaccg tccgcngtcg 300

tcttggcc 308

<210> 953

<211> 269

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 953

gccacctccc cgaaagctgc cgcgaccgat cgagcgaagn ncggctcccc gcncccgcgc 60

ccaaaaccct agcttctcct actccatggc cactgtctcg ctcacccgcg aggtgtctt 120

ctccacggan tccggtggcg ccttggcctc tgctaccatc ctccgctttc cgccaaactt 180

tgtccgccag cttagcacca aggcacgccg caactgcagc aacatcggcg tcgcgcagat 240

cgtcgccgcc gcgtggtccg actgccccg 269

<210> 954

<211> 276

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 954

ctgcaaaatg ctgaagggtc gggctctggca ccttttgact gctggctttg cttgagggga 60

atcaaaacca tggctctgcg ggtggagaaa caacaggcta atgccagaa gattgctgaa 120

ttcctggcgt ctcacccgag ggtcaagcaa gtaaaactacg ctgggcttcc tgaccatcct 180

gggcgagctt tacactattc ccaggcnaag ggancgggct ctgttctcag ttttcccacc 240

ggntaaatgg ccntcnaaa gnagggtggg ggaacc 276

<210> 955  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 955

cgagagtaga cgatcagaac caccatatat gtcctcacca gcaagttgtg ccaagaaatg 60  
 gaatagttgt aaaacgagta gatacaacga aaattagtgat tgtggtgtct gcaattggac 120  
 cctccactag actggtttgg ctcgaaagtc ccacgaaccc tcgtcagcaa attactgaca 180  
 ttaagacaat ctgagagata gcgcattctc atggtgctct tgttttgggtt gacaacagca 240  
 tcatgtctcc agtgctctcc cgctctatag aactgggagc tgatatcgtg atgcactcgg 300  
 ctaccaaatt tataacggga catagtgatc ttaagggtcg ggaaatcttg cagtgaagag 360  
 tganaatttg ggctaaaaga aggtaagggt ttctgcaaaa tgctgaaag ggncgggtcc 420  
 gggnaccttt tgactggctg 440

<210> 956  
 <211> 283  
 <212> DNA  
 <213> Zea mays

<400> 956

cgctgtggag accaccaagt acttcagcgt aacagtcagc ttcgggagcg tgaagtcctt 60  
 catcagcctg ccgtgcttca tgtcccacgc atcaatccct gcctcgggtcc gcgaggagcg 120  
 tggcctaacc gacgacctcg tccggatata ggtcggcatc gaggatgtcg aggacctcat 180  
 cgccgatctg gaccgcgcgc tcagaactgg cccggtgtag acatcgccga tccttaggtc 240  
 atgtcaagct atcttttgat gattcattgg ttgactgctt gcg 283

<210> 957  
 <211> 340  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 957

caagtacttc agcgtaacag tcagcttcgg gagcgtgaag tccctcatca gcntgccgtg 60



cttcatgtcn cacgcaccaa tccctgcctc ggtccgcgan gagcgtggcc taaccgacga 120  
 cctcgtcccg atatcggtcg gcacgcagga tgtcaggac ctcatcgccg atctggaccg 180  
 cgcgctcaga actggccccg tgtagacatc gccgatcctt aggtcatgtc aagctatctt 240  
 ttgatgattc attggttgac tgcttgctg atgataataa tgggaatgtt gcttggatac 300  
 gccgctgcta naaaaaaact gngtcnagnn acngggnnnc 340

<210> 958  
 <211> 257  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 958

gcattctcat ggtgctcttg ttttggttga caacagcatc atgtctccag tgctctcccg 60  
 tcctatagaa ctgggagctg atatcgtgat gcactcggct accaaattta tagcgggaca 120  
 tagtgatctt atggctggaa ttcttgcaagt gaagggtagg agtttggtta aagaggtagg 180  
 gtttctgcaa aangctgaag ggtcgggtct ggcacctttt gactgctggc tttgcttgag 240  
 gggaatcaaa accatgg 257

<210> 959  
 <211> 521  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 959

ggnnnagggg ctnnngtntn tgacntntac ttnntggcat gccgtaccgg tccggaattc 60  
 ccgggtcgac ccacgcgtcc ggggtgtctgc aattggaccc tccactagac tggtttggt 120  
 cgaaagtccc acgaaccctc gtcagcaaat tactgacatt aagacaatct cagagatagc 180  
 acattctcat ggtgctcttg ttttggttga caacagcatc atgtctccag tgctctcccg 240  
 tcctatagaa ctgggagctg atatcgtgat gcactcggct accaaattta tagcgggaca 300  
 tagtgatctt atggctggaa ttcttgcaagt gaagggtagg aagtttggtt aaagaggtag 360  
 ggtttctgca aaatgctgaa ngggtcgggt ctggcacctt ttgactgntg gctttgcttg 420  
 aagggaatca aaaccatggc tntgcnggtg gagaaacaac aggctaattg ccagaagatt 480

gctgaatttc tggggtntta cccganggtc aaagcaagta a 521

<210> 960  
 <211> 265  
 <212> DNA  
 <213> Zea mays

<400> 960

atcgtgatgc actcggctac caaatttata gcgggacata gtgatcttat ggctggaatt 60  
 cttgcagtga agggtagagag tttggctaaa gaggtagggt ttctgcaaaa tgctgaaggg 120  
 tcgggtctgg caccttttga ctgctggctt tgcttgaggg gaatcaaaac catggctctg 180  
 cgggtggaga aacaacaggc taatgccag aagattgctg aattcctggc gtctcaccgc 240  
 aggtcaagc aagtaaacta cgctg 265

<210> 961  
 <211> 148  
 <212> DNA  
 <213> Zea mays

<400> 961

atatcgtgat gcactcggct accaaattta tagcgggaca tagtgatctt atggctggaa 60  
 ttcttgcaat gaagggtagag agtttggtta aagaggtagg gtttctgcaa aatgctgaag 120  
 ggtcgggtct ggcacctttt gactgctg 148

<210> 962  
 <211> 453  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 962

ggctgggagc tcgctgacgg tgatcgagc cgctccggc ggctccgaac gagatctgag 60  
 cgctccgca gtctccgtgg aggccctgga ctccgtcgcc tccgattctg acttagagac 120  
 gaaggagccc agtgtgtcga cgatgctgac gagcttcgag aactcggttcg acaagtatgg 180  
 ggctctgagc acaccgctgt accagaccgc cacctttaag cagccttcag ctacagatta 240  
 tggaacttat gattacacta gaagtggtaa ccctactcgt gatgttctcc agagcctcat 300

ggctaagctt gagaaagcag atcaagcatt ctgcttcacc agcgggatgg cggcggttagc 360  
 tgcagtaaca caccttcttc angctggaca agaaatagtt gctgggtgang acatatatgg 420  
 tggttctgat cggcttactt ttgcaagttg tgc 453

<210> 963

<211> 230

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 963

cagcgctcc gcagtctccg tggaggccct ggactccatc gcctccnatt ctgacttaga 60  
 gacgaaggag cccagtgtgt cgacgatgcn nacgagnttc gagaactcgt tcgacaagta 120  
 tggggctctg agcacaccgg tgtaccagac cgccaccttt aagcagcctt cagntacaga 180  
 ttatggaact tatgattaca ctagaagtgg taaccctact cgtgatgntc 230

<210> 964

<211> 212

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 964

ccgtgctgga caccaacatc ctctgggtga accccgactg cggantcaag acccgaaagt 60  
 acacggaggt caagcccgcc ctgaccaaca tgggtctccgc tgctaactca ttcgcaccca 120  
 gctngccagc gccaatgagc ncttttttgc tttntcgttg ggaggnggcn tnttanttct 180  
 ntttttnnaa nanaggggccc cccctttttt nt 212

<210> 965

<211> 275

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 965

ggnccaaaca ccaagttctc ctatgcttct cacaaggctg ttaacgaata taaggaggnt 60  
 aaggngctcn gtgttganen cgtgcnagta nttgttngnc tagtnntgta gctgtngatc 120  
 tcaaagcctg ccaagggtat ggagaacgga tncccnctgg cttgccctta ctaggacgat 180

nctcccngtc tacaaggaag tgnntggnnn aattnaaatg nagnnnnggg ttccaggatt 240  
canttttang agcccgattg tgnncngcnca tgaat 275

<210> 966  
<211> 254  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 966

caagacccta acatctctga gcagtgtgac tgcttatggt tttgatcttg tccgtgggtg 60  
ggcttggtcac gagtgtggt ttccctgctg gaaagtacct ctttgctggn gttgtggatg 120  
gacgcaacat ctgggctgat gatcttgcta catcnctnag naccncaagt cnnntgantn 180  
tgnttttggg aagnaangct tgnngancaa ctgctgcgcg tnaggcacng cgcntgnnnc 240  
tngtaaanaa caat 254

<210> 967  
<211> 313  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 967

cgatatggnt gagtacttcg gtgagcagct ctccggtttt gcgttcaactg ccaattgctg 60  
ggtgcagtct atnggtcaag gtgcgtcaag cctccgatca tctacggtga cgtgagccgg 120  
cccaacccca tgaccgtttc tngtcgaaga cggcacagag catgacgtct cgcccaatga 180  
aggggatgct gactggncat cacatctcac tgtccttcgt cggattnaca gcgaggttgn 240  
gantgtacag angtcttgga tcaagaagga gngaggncct gagctgtgta tccgtaccaa 300  
cgcgagtnnt gaa 313

<210> 968  
<211> 313  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 968

ggangtngag natnttgagg ctgntgcatc tcaggcgatc cngattgatg aggcngntct 60  
 aagggagngn ttggcctgcg cangttatag catgcantct acctgcaactg cgctgtccnc 120  
 tctatcngaa tcaccnnctn cagantccan nacncnaacc agatccacac acatatgtgc 180  
 tagtnaaact ntaacnanat tatnttngga atcatcgaca tggacgcaga tgtgatcacc 240  
 atcgagaact cccgtccgac gagaagctac tttccgtgtt ccgngagggn gtgaagtacg 300  
 gagctgggat cng 313

<210> 969

<211> 222

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 969

caaggccaaa aaagatctct gaggagggan tacgtcactg ncatcaagga ggaaatcaag 60  
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 gagaaacgat atggttgagt acttcggtga gcaactctcg gtttttcntt nactgncaat 180  
 ggctnnntnc aanntantng nnnaagggnnc ntnaagnctn na 222

<210> 970

<211> 534

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 970

agntnntnnn tggnnngggga aggtatgnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
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 aaccctgact gtggtctcaa gacacgcacg tncacagagg tcaagcccgc ctgaccaaca 180  
 tgggtctctgc accaagctca tncgcacna acttgnacagc nngaaatgag gtcctngata 240  
 gntccatggt ctgatagcnc ggaatgagcc agntgttttg aataatttgg gtgntacccc 300  
 ctgnncnatg gnggaagtgn taggttaggc tctcattggn gggatacgcc gntacaagat 360  
 gtgttttaag nnnggagtgn gagnttttct ttgngntatg nntctgggng tatgttnnac 420  
 gctttgntta taacagaagn tgaaatncgc anngttgcta tacttnggcc aagtnaccaa 480

agctgaccng angaanaact gcagngcacc cttacacacc aangngggaa acgg 534

<210> 971

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 971

ccacgcgttc gcngacgcgt gcgggaacna ccngtctaag ttngagacat nctacnaant 60  
nncnattgca atcaaaaagg aggttgagga tcttgaggct gatggatttc aggtgatcca 120  
aatcnatngg gcanctgtaa taggaggntc tggcactacn caagttacat natgcattct 180  
acctgnactg tncgtgccac tntttnaaga tcacnaactg nngatttnaa gacaccacnc 240  
agatncacac cnacatgtgc tantcnaact tcaacnacat catatactcc attatcgaca 300  
tggatgccga tntgatcacn atcgagaact cccggttntg actagaanct actgtccnga 360  
ntttcgtgan ggtatgaagt acggagctgg cattgaacct ggtgtctact acattcatct 420  
cctaggattc ccttc 435

<210> 972

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 972

cccactcttc cnnccactct tncgngnttt angacaaaact tgtcatatna ncttcctggg 60  
ggctcattca caccgntgng gatcttctta acnanactaa tcttgacacc gaaattaant 120  
cttgncctgc ttttgctgcc cagaaagctg tngaggtnna tgctcttgct aatgcattgg 180  
ctgntcaaaa agatnangct tacttcgcan caaatgcttc tgctcatcct cgannaaaann 240  
ctcaccgccgt gtgaccaatn aaaaantcca taangctnct gntgctntca aagctcttac 300  
cacctccgtg ngaccaacat taactgctag attggatgcc ccatcaaaaa naatcttaac 360  
cttcccattc cttccancac tacaatcggn tccatccaca aaccggttna acctcatnaa 420  
gatccccngt 430

<210> 973

<211> 266  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 973  
  
 ttcgacttca ggccccgggat gatcagcatc aacctcgacc tgnnngaagn gcggcaacaa 60  
 nttcatcaag accgccgcct aacggccact tcggccgtga cgacgccgac nttcacctgg 120  
 gaggtggtga agccccnaa gttcgacaag gcatcggnntt aaggttggga gtgtcactgt 180  
 ggncatgagg actancttcc tctggctctt ctgttacctg naagattgct gctgntggat 240  
 gagtgtgttt gatcatgact ggctgc 266

<210> 974  
 <211> 303  
 <212> DNA  
 <213> Zea mays  
  
 <400> 974  
  
 gttcactgcc aacggatggg tgcaatccta tggatcacgc tgtgtgaagc caccattat 60  
 ctacggtgat gtcagccggc cgaaccccat gactgttttc tggccaaga tggcacagag 120  
 catgaccct cgtcccatga agggaatgtt gactggtcg gtcacaatcc tcaactggtc 180  
 attcgtcagg aacgaccagc ctaggtttga gacatgctac caaatagctc ttgcaatcaa 240  
 aaaggagggtt gaggatcttg aggctgctgg tattcagggtg atccagatcg atgaggcagc 300  
 tct 303

<210> 975  
 <211> 296  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 975  
  
 caacggatgg gtgcaatcct atggatcacg ctgtgtgaag ccaccatta tctatggtga 60  
 tgtcagccgg ccgaaccca tgactgtntt ctggccaag atggcacaga gcatgacccc 120  
 tcgtcccatg aagggaatgt tgactgggcc ggtcacaatc ctgaactggt cattcgtcag 180  
 gaacgaccag cctaggtttg agacatgcta ccaaatagct cttgcaatca aaaaggaggt 240

tgaggatctt gaggctgctg gtattcaggt gatccagatc gatgaggcag ctctaa 296

<210> 976

<211> 279

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 976

cactgccaac ggatgggtgc aatcctatgg atcacgctgt gtgaagccac ccattatcta 60

tggatgatgtc agccggccga accccatgac tgttttctgg tccaagatgg cacagagcat 120

gaccctcgt cccatgaagg gaatgttgac tgggccggtc acaatcctga actgggtcatt 180

cgtcaggaac gaccagccta ggtttgagac ntgctaccaa ntagctcttg cantcaaaaa 240

ggaggttgag gntcttgagg ctgctggtat tcaggtgat 279

<210> 977

<211> 220

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 977

ggaacggncg agnacgcgtg ggngtncagc cggccgaacc ccatnactgt tttctgggtgc 60

aagacggcac agagcatgac cgctcgtccc atgaaggga tgttgactgg tccagtcaca 120

atcctcaact ggtcatttgt caggaacgat cagcctaggt ttgagacatg ctaccaaata 180

gctcttgcaa taaaaaagga ggttgaggat cttgaggctg 220

<210> 978

<211> 295

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 978

cctgaacttg gcccaagcac caagttcaca tacgcttctc acaaggctgt ttctgagtac 60

aaggaggcaa aggcgctcgg cattgataca gtcccagtgc ttgttgacc agtgcatac 120

ttgctcctct ctaagcctgc caagggtgtg gagaaatctt tctctcttct ttnacttctt 180

ggtagcattc ttcccatcta caaggagggtt gttgctgagc tgaaggcagc tgggtgcttca 240



tggaattcaac ttgatgagcc tacccttggt aaagaccttg atgctcnoga attgg 295

<210> 979

<211> 259

<212> DNA

<213> Zea mays

<400> 979

cttctcacia ggctgtttct gagtacaagg aggcaaaggc gctcggcatt gatacagtcc 60

cagtgccttg ttgaccagtg tcatacttgc tcctctctaa gcctgccaag ggtgtggaga 120

aatctttctc tcttctttca cttcttggtg gcattcttcc catctacaag gaggttggtg 180

ctgagctgaa ggcagctggt gcttcatgga ttcaacttga tgagcctacc cttgttaaag 240

accttgatgc tcacgaatt 259

<210> 980

<211> 302

<212> DNA

<213> Zea mays

<400> 980

gtttctgagt acaaggaggc aaaagcgctc ggtattgata ctgtcccagt gcttggttga 60

ccagtgtcat acttgctcct ctctaagcct gccaaagggtg tggagaaatc tttctctctt 120

ctttcgcttc ttggcagcat tcttcccatc tacaaggagg ttgtttctga actgaaggca 180

gctggtgctt catggattca gtttgatgag cctacccttg ttaaagacct tgatgttcac 240

gaattgggca gcattctctt cagcatatgt gaactagagt cggcatctct ggattgaatg 300

tg 302

<210> 981

<211> 284

<212> DNA

<213> Zea mays

<400> 981

ggcagctggt gcttcatgga ttcagtttga tgagcctacc cttgttaaag accttgatgt 60

tcacgaattg gcagcattct cttcagcata tgctgaacta gagtcggcat tctctggatt 120

gaatgtgctt atcgagacat actttgctga cattcctgct gagtcctaca agaccctcac 180

gtcattgagt ggtgtgactg cttacggttt tgatcttata cgtggagcca agacccttga 240  
tcttatcagg agcagttccc ctctgggaag tacctcttcg ctgg 284

<210> 982  
<211> 314  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 982

tgctgagctg aangcagctg gtgcntcatg gattcaactt gatgagccta nccntgttaa 60  
agaccttgat gctcacgaat tggccgcatt ctcttcagca tatgctgaac tggagtcata 120  
gttctctgga ttgaatgtgc ttatcgagac atacttcgct gacattcctg ctgagtccta 180  
caagaccctc acatcaatga gtgggtgtga ctgcctacgg ntctgatctt aaccgtngag 240  
ccaagaccct tgatcttata aggagcagct tcccctctgg gaagtacctc ttcgtggtgt 300  
tgtagatgga cgca 314

<210> 983  
<211> 231  
<212> DNA  
<213> Zea mays

<400> 983

atacaaaacta ccactttatt gtccctgaac ttggcccaag caccaagttc acatacgtt 60  
ctcacaaggc tgtttctgag tacaaggagg caaaggcgct cggcattgat acagtcccag 120  
tgcttggttg accagtgtca tacttgctcc tctctaagcc tgccaagggt gtggagaaat 180  
ctttctctct tctttcactt cttggttagca ttcttcccat ctacaaggag g 231

<210> 984  
<211> 229  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 984

gtttcngagt acaaggaggc aaaggcgctc ggcattgana cagtcccagt gncttgtnng 60  
accagtgtca tacttgctcc tctctaagcc tgccaagggt gtggagaaat ctttcncnct 120

tctttcacnt cttggttagca tncntcccat ctacaaggag gttgtngcng agcngaaggc 180  
agcnggtgct tcatggattc aacttgatga gcctaccctt gttaaagac 229

<210> 985  
<211> 300  
<212> DNA  
<213> Zea mays

<400> 985

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tgagctgaag gcagctggtg cttcatggat tcaacttgat gagcctaccc ttgttaaaga 120  
ccttgatgct cacggaattg gccgcattct cttcagcata tgctgaactg gagtcatcgt 180  
tctctggatt gaatgtgctt atcgagacat acttcgctga cattcctgct gagtccctac 240  
aagaccctca catcattgag tgggtgtgact gcttacgggtt tcgatcttat ccgtggagcc 300

<210> 986  
<211> 177  
<212> DNA  
<213> Zea mays

<400> 986

gaaatctttc tctcttcttt cgcttcttgg cagcattctt cccatctaca aggaggttgt 60  
ttctgaactg aaggcagctg gtgcttcatg gattcagttt gatgagccta cccttggtta 120  
agaccttgat gttcacgaat tggcagcatt ctcttcagca tatgctgaac tagagtc 177

<210> 987  
<211> 145  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 987

ggaggntggt gctgagctga aggcagctgg tgcttcatgg attcagcttg atgagcctac 60  
ccttggttaa gaccttgatg ctacgaatt ggccgcattc tcttcagcat atgctgaact 120  
ggagtctngt tctctggatt gaatg 145

<210> 988

<211> 189  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 988  
  
 attcaacttg atgagcctac ccttggttaa gaccttgatg ctcacgaatt ggccgcattc 60  
 tcttcagcat atnctgaact ggagtcacgc ttctcnggat tgaatgtgct atcgagacan 120  
 acttcgctga catnctgctg agtcctacaa gacctcaca tcatgagtgg tgtgatnctt 180  
 acggtttcg 189

<210> 989  
 <211> 532  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 989  
  
 gaggctcgnt ntnntnnngn aacttnaagg gagncttaat ggaaagcttg taccgggccg 60  
 gattcccggg tcgaccacgc cgtccgcgga cgcgtgggta caggcttact tcgcagcaaa 120  
 tgctgctgct caggcctcga ggaaatcctc accccgtgtg accaatgaag aagtccagaa 180  
 ggctgctgct gctctcaagg gctctgacca ccgccgtgcg accaacgtta gtgctagatt 240  
 ggatgcccag cagaagaagc ttaacctccc catccttccc accactacaa tcgggttcgtt 300  
 cccacaaacc gttgagctca ggagggtccg ccgtgagtag aaggcaaaaa agatctctga 360  
 ggaggaatac gtcactgcc acaaggagga aatcaacaag gtcgttaagc tccaagaaga 420  
 gcttgacatt gatgtgcttg tgcatggcga gcctgagaga aacgatatgg ttgagtactt 480  
 cggtgagcag ctctccggtt ttgcgttcac tgccaatggc tgggtgcagt ct 532

<210> 990  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 990  
  
 gcttacttcg cagcaaatgc tgctgctcag gcctcgagga aatnctnacc ccgtgtgacc 60  
 aatgaagaag tccagaaggc tgctgctgct ctcaagggct ctgaccaccg ccgtgggacc 120

aacgttagtg ctagattgga tgcccagcag aagaagctta acctcccat ccttcccacc 180  
 actacaatcg gttcgttccc acaaaccgtt gagctcagga gggtcgccg tgagtacaag 240  
 gcaaaaaaga tctctgagga ggaatacgtc actgccatca aggaggaaat caacaaggtc 300  
 gttaagcttc aagaagagct tgacattgat gtgcttgtgc atggcgagcc tgagagaaac 360  
 gatatggttg agtacttcgg tgagcagctc ttcggttttg cgttcactgg caatggctgg 420  
 gtncagtctt atgggtcaag g 441

<210> 991  
 <211> 524  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 991

gnnnnnnagt agtttatnnn ggggnngggg gggggaangg gaagnttcac cggtcggaa 60  
 ttcccgggtc gaccacgcg tccgatccag gacaccacc agatccacac ccacatgtgc 120  
 tactccaact tcaacgacat catncactng atcatcgaca tggacgcgga cgtgatcacc 180  
 atcgagaact cgcggtccga cgagaagctg ctctccgtgt tccgtgaggg tgtcaagtac 240  
 ggcgcgggca tcggccccg tgtctacgac atccactccc ccaggatccc gtcggccgag 300  
 gagatcgccg accgcatcga caagatgctg gccgtgctgg acaccaacat cctctgggtg 360  
 aaccccgact gcggcctcaa gacccgcaag tacacggagg tcaagccgc cctgaccaac 420  
 atggtctccg ctgctaagct cattcgcacc cagctcgcca agcgccaaag tgagcacctt 480  
 tttttgcctt tttcgtttcc gaggagggcg tcgtcgatgc caat 524

<210> 992  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 992

gaattncaa ctgcgatttc caggacacca ccagatcca caccacntg tgctactcca 60  
 acttcaacga catcatccac tcgatcatcg acatggacgc ggacgtgatc accattgaga 120  
 actcgcggtc cgacgagaag ctgctctccg tgttccgcga gggcgtcaag tacggcgcg 180

gcatcggccc cggtgtctac gacatccact cccccaggat cccgtcggct gaggagatcg 240  
ccgaccgcat cgacaagatg ctggcgggtgc tggacaccaa catcctctgg gtgaaccccg 300  
actgcggcct taagaccgcg aagtacacgg aggtcaaagc ccgcctgacc aacatgggtct 360  
ncgncgctaa gctcatncgc acccagntcg ccancgcaa gtgancacct ttttttttgg 420  
ccttttttngn ttccga 436

<210> 993  
<211> 330  
<212> DNA  
<213> Zea mays

<400> 993  
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tgtggaactc aggaggggtcc gtcgtgagta caaggcaaag aagatctccg aggaggaata 120  
catcagtgcc atcaaggaag aaatcagcaa ggttgtcaag atccaagagg agcttgacat 180  
tgatgtgctt gtgcatggag agccagaaaag aaatgacatg gttgagtact tcggtgagca 240  
attatctggg tttgcattca ctgccaacgg atgggtgcaa tcttatggat cacgttgtgt 300  
gaagccaccc attatctatg gcgatgtcag 330

<210> 994  
<211> 438  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 994

atgacgtctc gcccaatgaa ggggnttctg actggcccag tcacaatcct caactgggcc 60  
ttcgtccgga atgaccagcc gaggtttgag acttgctacc agatcgctct tgcgatcaag 120  
aaggaagtgc aggatcttga ggctgggtgg attcagggtta tccaaatcga cgaggctgca 180  
ctgagagaag ggctgccgct ccgcaaggct gaacatgcat tctacttgga ctgggctgcc 240  
actccttcag aattaccaac tgcgagatcc angacaccac ccagatccac acccacatgt 300  
gctacttcaa cttcaacgac atcatncact cgatcatcga catggacgcc gacgtgaaca 360  
ccattgagaa cttgcggggc gacnagaaac ttntnttccg ngtnncncga aggccgtnaa 420

gtccgggncc gggcatnt

438

<210> 995

<211> 469

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 995

cacagagcat gacccctcgt cccatgaagg tnatgttgac tggtcntntc acaatcctga 60

actggtcatt cgtcaggaac gaccagccta ggtttgagac atgctaccaa atagctcttg 120

caatcaaaaa ggaggttgag gatcttgagg ctgctgggat tcaggtgatc cagatcgatg 180

aggcagctct aagggagggt ctgccactac gcaagtcaga gcatgcattc tacctggact 240

gggctgtcca ctctttcagg atcaccaact gcggagtcca ggacaccacc cagatccaca 300

cccacatgtg ctactccaac ttcaacgaca tcatccactc catcatcgac atggatgccc 360

gatgtgatca cgatcgagaa ctcccgtct gaccagaagc tactgtccgt cttncgtgag 420

ggtgtgaaat accggaactg gcattggccc tgggtgtctac gacattcat 469

<210> 996

<211> 353

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 996

tggggctgtc cactctttca ggatcaccaa ctgcggagtc caggacacca cccagatcca 60

caccacatg tgctactcca acttcaacga catcatccac tccatcatcg acatggatgc 120

cgatgtgatc acgatcgaga actcccgtc tgacgagaag ctactgtccg tcttccgtga 180

gggtgtgaag tacggagctg gcattggccc tgggtgtctac gacatccact ctctaggat 240

tccctccacc gaggagatcg cagaccgct cgagaagatg ctgcgctgc tcgacaccaa 300

catcctctgg gtgaacctga ctgtggtctc aagacacgca atacacggan gtc 353

<210> 997

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
 <400> 997

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gagcctgaga gaaacgatat ggttgagtac ttcggtgagc agctctccgg ttttgcgttc 120
actgccaatg gctgggtgca gtcttatggg tcaaggtgcg tcaagcctcc gatcatctac 180
ggtgaccgtg agccgcccc accccatgac cgttttctgg tcgaagacgg cacagagcat 240
gacgtctcgc ccaatgaagg ggatgctgac tggcccagtc acaatcctca actggtcctt 300
cgtccggaat gaccagccga ggtttgagac ttgctaccag atccgctctt gcgatcaaga 360
aggaaagtcg aggatcttga agctgggtggg tattcaaggg tatccaaatc gaccagggct 420
tgactnaaa gaaanggctt nccgnttcgn aa 452

```

<210> 998  
 <211> 484  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 998

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cactcgatca tcgacatgga cgcggacgtg atcaccatcg agaactcgcg gtccgacgag 120
aagctgctct ccgtgttccg tgagggtgtc aagtacggcg cgggcatcgg ccccgggtgc 180
tacgacatcc actccccag gatcccgctg gccgaggaga tcgccgaccg catcgacaag 240
atgctggccg tgctggacac caacatcctc tgggtgaacc ccgactgcgg cctcaagacc 300
cgcaagtaca cggaggtcaa gcccgccctg accaacaatgg tctccgctgc taagctcatt 360
cgcaccagc tcgccagcgc caagtgagca cctttttttg cctttttcgt ttccgaagaa 420
gggcgtcgtc natgccaatt ttgtttccaa taaacaaggn tncccccccn tttncnccg 480
ttnt 484

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<210> 999  
 <211> 353  
 <212> DNA  
 <213> Zea mays

<400> 999



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cgagatccag gacaccaccc agatccacac ccacatgtgc tactccaact tcaacgacat 120  
catccactcg atcatcgaca tggacgcgga cgtgatcacc attgagaact cgcggtccga 180  
cgagaagctg ctctccgtgt tccgcgaggg cgtcaagtac ggcgcgggca tcggccccgg 240  
tgtctacgac atccactccc ccaggatccc gtcggctgag gagatcgccg accgcatcga 300  
caagatgtgg cgggtgtggac accaacatcc tctgggtgaa cccgattgcg gct 353

<210> 1000  
<211> 303  
<212> DNA  
<213> Zea mays

<400> 1000

cagatcgatg aggcagctct aaggaggagg ctgccactac gcaagtcaga gcatgcattc 60  
tacctggact gggctgtcca ctctttcagg atcaccaact gcggagtcca ggacaccacc 120  
cagatccaca cccacatgtg ctactccaac ttcaacgaca tcatccactc catcatcgac 180  
atggatgccg atgtgatcac gatcgagaac tcccggctctg acgagaagct actgtccgtc 240  
ttccgtgagg gtgtgaagta cggagctggc attggccctg gtgtctacga catccactct 300  
cct 303

<210> 1001  
<211> 347  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1001

atgaggctta ctttgcagcc aatgctgctg ctcaggcctc aaggagatca tcacctagag 60  
tgacaaacga ggagggtccaa aaggctgcag ctgctttgaa gggttctgac nnccgccgtg 120  
ctactactgt tgctgctaga ttggatgctc agcagaaaaa gctcaacctt cctgtccttc 180  
ccacaaccac aattgnntca ttccctcaga ctgtggaact caggaggggtc cgtcgtgagt 240  
acaaggcaaa gaagatctcc gaggaggaat acatcagtgc catcaaggaa gaaatcagca 300  
aggttgtcaa gatccaagag gagcttgaca ttgatgtgct tgtgcat 347

<210> 1002  
 <211> 319  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1002  
  
 caaggcaaaag aagatctccg aggaggaata catcagtgcc atcaaggaag aaatcagcaa 60  
 ggttgtcaag atccaagagg agcttgacat tgatgtgctt gtgcatggag agccagaaag 120  
 aaatgacatg gttgagtact tcggtgagca attatctggt tttgcattca ctgccaacgg 180  
 atgggtgcaa tcttatggat cacgttgtgt gaagccaccc attatctatg gcgatgtcag 240  
 ccggccgaac cccatgactg ttttctggtc caagacggca cagagcatga ccgctcgtcc 300  
 catgaaggga atgttgact 319

<210> 1003  
 <211> 379  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1003  
  
 caagcttgct gtatcaactt cctgctcgct catgcacacc gctgtggatc ttgtgaacga 60  
 gactaagctt gacagcgaga ttaagtcttg gcttgctttt gctgcccaga aggttggtga 120  
 ggttgatgct cttgctaagg cattggctgg tcaaaaggat gaggcttact tcgcagcaaa 180  
 tgctgctgct caggcctcga ggaaatcctc accccgtgtg accaatgaag aagtccagaa 240  
 ggctgctgct gctctcaagg gctctgacca ccgccgtggg accaacgtta gtgctagatt 300  
 ggatgccag cagaagaagc ttaacctccc catccttccc accactacaa tcgggttcgg 360  
 nnnnnnnnnn nnnnnnnnt 379

<210> 1004  
 <211> 351  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1004  
  
 caggacacca ccagatcca caccacatg tgctactcca acttcaacga catcatccac 60  
 tccatcatcg acatggatgc cgatgtgatc acgatcgaga actcccggtc tgacgagaag 120

ctactgtccg tcttccgtga ggggtgtgaag tacggagctg gcattggccc tgggtgtctac 180  
gacatccact ctcttaggat tccctccacc gaggagatcg cagaccgct cgagaagatg 240  
ctcgccgtgc tcgacaccaa catcctctgg gtgaacctg actgtggtct caagacacgc 300  
aatacacgga ggtcaagccc gncctgacca acaggtctcg gcaacaagct c 351

<210> 1005  
<211> 302  
<212> DNA  
<213> Zea mays

<400> 1005

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ttggactggg ctgtccactc cttcagaatc accaactgcg agatccagga caccacccag 120  
atccacaccc acatgtgcta ctccaacttc aacgacatca tccactcgat catcgacatg 180  
gacgcggacg tgatcaccat cgagaactcg cggctccgacg agaagctgct ctccgtgttc 240  
cgtgaggggtg tcaagtacgg cgcgggcatc ggccccggtg tctacgacat ccaactcccc 300  
ag 302

<210> 1006  
<211> 296  
<212> DNA  
<213> Zea mays

<400> 1006

gcagaaaaag ctcaaccttc ctgtccttcc cacaaccaca attggttcat tccctcagac 60  
tgtggaactc aggaggggtcc gtcgtgagta caaggcaaag aagatctccg aggaggaata 120  
catcagtgcc atcaaggaag aaatcagcaa ggttgtcaag atccaagagg agcttgacat 180  
tgatgtgctt gtgcatggag agccagaaaag aaatgacatg gttgagtact tcggtgagca 240  
attatctggt tttgcattca ctgccaacgg atgggtgcaa tcttatggat cacgtt 296

<210> 1007  
<211> 537  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<400> 1007

gntngagtcn ggcttcggcn ttgatgatng cgtantcntt cngnangccg ntngaattc 60  
ccgggtcgac ccacgcgtcc ggnaggaata cgtcactgcc atcaaggagg aaattaacaa 120  
ggtcgttaag cttcaagaag agcttgacat tgatgtgctt gtgcatggng agcctgagag 180  
aaacgatatg gttgagtact tcggtgagca gctctncggt tttgcgttca ctgccaatgg 240  
ctgggtgcag tcttatgggt caaggtgcgt caagcctccg atcatctacg gtgacgtgag 300  
ccgtcccaac cccatgaccg ttttctgggtc gaagacggcn canagcatga cgtctcgccc 360  
aatgaaaggg gatgctgact ngcccagtca caatcctcaa ctggtncttt gtcccggaat 420  
naccagccca gggtttgaga nttgctacca gaatcggtt cttgcatca agaaaggga 480  
gtncaaagga tctttgangn tgggtggtnt ttaangttta ttncaaaatc gacnaag 537

<210> 1008

<211> 347

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1008

cgttttctgg tcgaagacgg gcgcagagca tgacgtctcg cccaatgaag gggatgctga 60  
ctggcccagt cacaatcctc aactggctct tcgtccggaa cgaccagccg aggtttgaga 120  
cttgctacca gatcgctctt gcgatcaaga aggaagtcga ggatcttgag gctgggtgga 180  
ttcaggttat ccaaactgac gaggctgcac tgagagaagg gctgccgctc cgcaaggctg 240  
agcatgcatt ctacttgga tgggctgtcc actccttcag aattaccaac tgcgagatnc 300  
aggacaccac cagatccaca cccacatgtg ctactccaac ttcaacg 347

<210> 1009

<211> 339

<212> DNA

<213> Zea mays

<400> 1009

gaggatcttg aggctgctgg tattcagggtg atccagattg atgaggcagc tctaaggag 60  
ggtctgccac tgcgcaagtc agagcatgca ttctacctgg actgggctgt ccactctttc 120  
agaatcacca actgcggagt ccaggacacc acccagatcc acacccatat gtgctactcc 180

aacttcaacg acatcatcca ctccatcatc gacatggacg cagatgtgat caccatcgag 240  
aactcccggg cgcacgagaa gctactgtcc gtgttccgcg aggtgtgaag tacggagctg 300  
gaatcgggtcc agtgtctagg aatccactcg ccaagtccc 339

<210> 1010  
<211> 313  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1010

ccgctccgca aggtcgagca tgcattctac ttggactggg ctgtccactc cttcagaaac 60  
accaactgcg agatccagga caccaccag atccacacc acatgtgcta ctccaacttc 120  
aacgacatca tccactcgat catcgacatg gacgcggacg tgatcaccat cgagaactcg 180  
cgggtccgacg agaagctgct ctccgtgttc cgtgaggggtg tcaagtacgg cgcgggcatc 240  
ggccccgggtg tctacgacat ccaactcccc aggatcccgt cggccganga gatcgccgac 300  
cgcatcgaca aga 313

<210> 1011  
<211> 310  
<212> DNA  
<213> Zea mays

<400> 1011

caacaagggtc gttaagcttc aagaagagct tgacattgat gtgcttgtgc atggcgagcc 60  
tgagagaaac gatatggttg agtacttcgg tgagcagctc tccggttttg cgttcactgc 120  
caatggctgg gtgcagtctt atgggtcaag gtgcgtcaag cctccgatca tctacggtga 180  
cgtgagccgc cccaacccca tgaccgtttt ctggtcgaag acggcacaga gcatgacgtc 240  
tcgccaatg aaggggatgc tgactggccc agtcacaatc ctcaactggt ccttcgtccg 300  
gaatgaccag 310

<210> 1012  
<211> 319  
<212> DNA  
<213> Zea mays

<400> 1012

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acgatatggt tgagtacttc ggtgagcagc tctccggttt tgcgttcact gccaatggct 60
gggtgcagtc ttatgggtca aggtgcgtca agcctccgat catctacggt gacgtgagcc 120
gccccaaacc catgaccggt ttctgggtcga agacggcgca gagcatgacg tctcgcccaa 180
tgaaggggat gctgactggc ccagtcacaa tcctcaactg gtccttcgtc cggaatgacc 240
agccgaggtt tgagacttgc taccagatcg ctcttgcat caagaaggaa gtcgaggatc 300
tcgaggctgg tggatttca 319
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<210> 1013

<211> 315

<212> DNA

<213> Zea mays

<400> 1013

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ctagattgga tgcccagcag aagaagctta acctcccat ccttcccacc actacaatcg 60
gttcgttccc acaaaccggt gagctcagga ggggtccgccg tgagtacaag gcaaaaaaga 120
tctctgagga ggaatacgtc actgccatca aggaggaaat caacaaggtc gttaagcttc 180
aagaagagct tgacattgat gtgcttgtgc atggcgagcc tgagagaaac gatatggttg 240
agtacttcgg tgagcagctc tccggttttg cgttcactgc caatggctgg gtgcagtctt 300
atgggtcaag gtgcg 315
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<210> 1014

<211> 505

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1014

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aggggtgnag gggggggaag aaaggaactg tcgtaccggt ccggaattcc cgggtcgacc 60
cacgcgtccg cttgtccgtg gaacccaaac tcttgggctt gtcacgagtg ctggtttccc 120
tgctggaag tacctctttg ctggtgttgt ggatggacgc aacatctggg ctgatgatct 180
tgctacatct ctcagcactc tccagtctct tgaggctgtt gttgggaagg acaagcttgt 240
cgtatcaact tcctgctcgc tcatgcacac cgctgtggat cttgtgaacg agactaagct 300
tgacagcgag attaagtctt ggcttgcttt tgctgccag aagggtgttg aggttgatgc 360
```

tcttgctaag gcattggctg gtcaaaagga tgaggcttac ttcgcagcaa atgctgctgc 420  
tcaagcctcg aggaaatcct naccocgtgt gaccaatgaa aaatccagaa ngctgctgct 480  
gntcttnaag gcttttgacc accgc 505

<210> 1015  
<211> 298  
<212> DNA  
<213> Zea mays

<400> 1015

gccgtgaata caaggcaaag aagatcaccg aggacgaata catcagtgcc atcaaggaag 60  
aaatcagcaa ggttgtcaag atccaagagg agcttgacat tgatgtgctt gtgcatggag 120  
agccagagag aaatgacatg gttgagtact tcggtgagca attatctggt tttgcgttca 180  
ctgccaacgg atgggtgcaa tcctatggat cacgctgtgt gaagccaccc attatctatg 240  
gtgatgtcag ccggccgaac cccatgactg ttttctggtc caagatggca cagagcat 298

<210> 1016  
<211> 493  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1016

gggnnnnnngn aangttacgt tncgggnccg gtccaaaata aacgggtcga ngcacgcgtc 60  
cgggccaact tgcctccaa ctttgattcc tgacaaaatt ggctggcatt ctctgctgca 120  
tacgcagaaa cttgaatctg tactttctgg attgaatgtg cttgttgaga cttactttgc 180  
tgatgttcct gctgagtcct acaagaccct aacatctctg agcagtgtga ctgcttatgg 240  
ttttgatctt gtccgtggaa cccaaactct tgggcttgct acgagtgtg gtttccctgc 300  
tggaagtac ctctttgctg gtgttggtga tggacgcaac atctgggctg atgatcttgc 360  
tacatctctc agcactctcc agtctcttga ggctgttggt gggaaggaca agcttgctgt 420  
atcaacttcc tgctcgctca tgcacaccgc tgtggatctt gtgaacgaga ctaagcttga 480  
cagcgagatt aag 493

<210> 1017

<211> 356  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1017

cgccgctgcg ccgttctcct ccgctcccgt cgtccggaaa gatggcgctcc cacattgttg 60  
 gataccctcg catgggcccc aagagggagc tcaagtttgc acttgagtct ttctgggatg 120  
 ggaagagcac cgctgaggat ctggagaagg ttgctaccga cctcagggcc agtatctgga 180  
 agcagatggc tgatgctggg atcaagtaca tccccagcaa cactttctcg tactatgacc 240  
 aggtccttga caccactgcc atgctcggcg ctgtccccga acgttactca tggactggan 300  
 gagagattgg anttgacacc tactttctcca tggccagggc aacgcactgt tcctgc 356

<210> 1018  
 <211> 344  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1018

gcctaccatc tgttcagaca agcttgtcgt atcaacttcc tgctcgctca tgcacaccgc 60  
 tgtggatctt gtgaacgaga ctaagcttga cagcgagatt aagtcttggc ttgcttttgc 120  
 tgcccagaag gttgttgagg ttgatgctct tgctaaggca ttggctggtc aaaaggatga 180  
 ggcttacttc gcagcaaatg ctgcagctca ggctcgagg aaatcctcac cccgtgtgac 240  
 caatgaagaa gtccagaagg ctgctgctgc tctcaagggc tctgaccacc gccgtgcgac 300  
 caacgttagt gctagattng atgcccagca gaagaagcct aacc 344

<210> 1019  
 <211> 292  
 <212> DNA  
 <213> Zea mays

<400> 1019

ccgccgtgct accactgttg ctgctagatt ggatgctcag cagaaaaagc tcaaccttcc 60  
 tgtccttccc acaaccacaa ttgggttcatt ccctcagact gtggaactca ggaggggccg 120  
 tcgtgagtac aaggcaaaga agatctccga ggaggaatac atcagtgcc tcaaggaaga 180



aatcagcaag gttgtcaaga tccaagagga gcttgacatt gatgtgcttg tgcatggaga 240  
gccagaaaga aatgacatgg ttgagtactt cggtagacaa ttatctgggtt tt 292

<210> 1020  
<211> 312  
<212> DNA  
<213> Zea mays

<400> 1020

accagccgag gtttgagact tgctaccaga tcgctcttgc gatcaagaag gaagtcgagg 60  
atctcgaggc tgggtgtatt caggttatcc aaatcgacga ggctgcactg agagaagggc 120  
tgccgctccg caaggctgag catgcattct acttggactg ggctgtccac tccttcagaa 180  
tcaccaactg cgagatccag gacaccaccc agatccacac ccacatgtgc tactccaact 240  
tcaacgacat catccactcg atcatcgaca tggacgcgga cgtgatcacc atcgagaact 300  
cgcggtccga cg 312

<210> 1021  
<211> 286  
<212> DNA  
<213> Zea mays

<400> 1021

caagatccaa gaggagcttg acattgatgt gcttgtgcat ggagagccag agagaaatga 60  
catggttgag tacttcggtg agcaattatc tgggttttgcg ttcactgcca acggatgggt 120  
gcaatcctat ggatcacgct gtgtgaagcc acccattatc tacggtgatg tcagccggcc 180  
gaaccccatg actgttttct ggtccaagat ggcacagagc atgaccctc gtcccatgaa 240  
gggaatgttg actggtccg tcaaatcct caactgggtca ttcgtc 286

<210> 1022  
<211> 287  
<212> DNA  
<213> Zea mays

<400> 1022

atgtgtact ccaacttcaa cgacatcatc cactccatca tcgacatgga tgccgatgtg 60  
atcacgatcg agaactcccg atctgacgag aagctactgt ccgtcttccg tgaggggtgtg 120

aagtacggag ctggcattgg ccctgggtgtc tacgacatcc actctcctag gattccctcc 180  
accgaggaga tcgcagaccg cgtcgagaag atgctcgccg tgctggacac caacatcctc 240  
tgggtgaacc ctgactgtgg tctcaagaca cgcaagtaca cggagggt 287

<210> 1023  
<211> 295  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1023

caaggntgtc aagatccaag aggagcttga cattgatgtg cttgtgcatg gagagccaga 60  
gagaaatgac atggttgagt acttcggtga gnaattatct ggttttgcgt tcaactgcca 120  
cggatgggtg caatcctatg gatcacgctg tgtgaagcca ccattatct atggatgatgt 180  
cagccggccg aaccccatga ctgttttctg gtccaagatg gcacagagca tgacccctcg 240  
tcccatgaag ggaatgttga ctgggtccggt cacaatcctg aactgggtcat tcgtc 295

<210> 1024  
<211> 299  
<212> DNA  
<213> Zea mays

<400> 1024

agaagatcac cgatgacgaa tacatcagtg ccatcaagga agaaatcagc aaggttgtca 60  
agatccaaga ggagcttgac attgatgtgc ttgtgcatgg agagccagag agaaatgaca 120  
tggttgagta cttcgggtgag caattatctg gttttgcgtt cactgccaac ggatgggtgc 180  
aatcctatgg atcacgctgt gtgaagccac ccattatcta tggtgatgtc agccggccga 240  
accccatgac tgttttctgg tccaagatgg cacagagcat gacccctcgt cccatgaag 299

<210> 1025  
<211> 312  
<212> DNA  
<213> Zea mays

<400> 1025

tgagtacaag gcaaaaaaga tctctgagga ggaatacgtc actgccatca aggaggaaat 60  
caacaagggtc gttaagcttc aagaagagct tgacattgat gtgcttgtgc atggcgagcc 120

tgagagaaac gatatggttg agtacttcgg tgagcagctc tccggttttg cgttcactgc 180  
 caatggctgg gtgcagtctt atgggtcaag gtgcgtcaag cctccgatca tctacggtga 240  
 cgtgagccgc cccaacccca tgaccgtttt ctggtcgaag aggcacagag catgacgtct 300  
 cgcccaatga ag 312

<210> 1026  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<400> 1026

aaagatctct gaggaggaat acgtcactgc catcaaggag gaaatcaaca aggtcgttaa 60  
 gcttcaagaa gagcttgaca ttgatgtgct tgtgcatggc gagcctgaga gaaacgatat 120  
 ggttgagtac ttcggtgagc agctctccgg ttttgcgttc actgccaatg gctgggtgca 180  
 gtcttatggg tcaaggtgcg tcaagcctcc gatcatctac ggtgacgtga gccgccccaa 240  
 ccccatgacc gttttctggt cgaagacggc acagagcatg acgtctcgcc caatgaagg 299

<210> 1027  
 <211> 310  
 <212> DNA  
 <213> Zea mays

<400> 1027

gtgtgaccaa tgaagaagtc cagaaggctg ctgctgctct caagggtctt gaccaccgcc 60  
 gtgggaccaa cgtagtgct agattggatg ccagcagaa gaagcttaac ctccccatcc 120  
 ttcccaccac tacaatcggc tcgttcccac aaaccgttga gctcaggagg gtccgccgtg 180  
 agtacaaggc aaaaaagatc tctgaggagg aatacgtcac tgccatcaag gaggaaatca 240  
 acaaggctcg taagcttcaa gaagagcttg acattgatgt gcttgtgcat ggcgagcctg 300  
 agagaaacgg 310

<210> 1028  
 <211> 305  
 <212> DNA  
 <213> Zea mays

<400> 1028

gtctcgccca atgaagggga tgctgactgg cccagtcaca atcctcaact ggtccttcgt 60  
ccggaatgac cagccgaggt ttgagacttg ctaccagatc gctcttgcca tcaagaagga 120  
agtcgaggat cttgaggctg gtggtattca ggttatccaa atcgacgagg ctgcactgag 180  
agaagggctg ccgctccgca aggctgagca tgcattctac ttggactggg ctgtccactc 240  
cttcagaatt accaactgcg agatccagga caccacccag atccacaccc acatgtgcta 300  
ctcca 305

<210> 1029

<211> 330

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1029

cgctgaggat ctggagaagg ttgctaccga cctcagggcc agtatctgga agcagatggc 60  
tgatgctggg atcaagtaca tccccagcaa caccttctcg tactatgacc agntccttga 120  
caccactgcc atgctcggcg ctgtccccga acgctactca tggactggag gagagattgg 180  
gtttgacacc tacttctcca tggccagggg caacgccact gtccctgcta tggagannac 240  
caagtggttt gacaccaact accactttat tgtccctgaa ttggggccaa acaccaagtt 300  
ctcctatgct tctcacaagg ctgttaacga 330

<210> 1030

<211> 269

<212> DNA

<213> Zea mays

<400> 1030

gcattctacc tggactgggc tgtccactct ttcagaatca ccaactgcgg agtccaggac 60  
accacccaga tccacaccca tatgtgctac tccaacttca acgacatcat ccactccatc 120  
atcgacatgg acgcagatgt gatcaccatc gagaactccc ggtccgacga gaagctactg 180  
tccgtgttcc gcgaggggtg gaagtacgga gctggaatcg gtccagggtg ctacgacatc 240  
cactcgccca ggatcccctc caccgagga 269

<210> 1031

<211> 311  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1031  
  
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 ggaatgacca gccgaggttt gagacttgct accagatcgt cttgcgatca agaaggaagt 120  
 cgaggatctc gaggctggtg gtattcaggt tatccaaatc gacgaggctg cactgagaga 180  
 agggctgccg ctccgcaagg ctgagcatgc attctacttg gactgggctg tccactcctt 240  
 cagaatcacc aactgcgaga tccaggacac caccagatc cacaccaca tgtgctactc 300  
 caacttcaac g 311

<210> 1032  
 <211> 382  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1032  
  
 gggacaccac ccagatccac acccacatgt gctactccaa ctttcaacga catcatccac 60  
 tcgatcatcg acatggacgc ggacgtgatc accattgaga actcgcggtc cgacgagaag 120  
 ctgctctccg tgntccgga gggcgtcaag tacggcgcgg gcatcggcnc cgggtgtctac 180  
 gacatccact cccccaggat cncgtcggct gangagatcg ccgaccgcat cgacaagatg 240  
 ctggcgggtgc tggacancaa catcctctgg gtgaaccccc actgcngcct caagaccgcg 300  
 aagtacacgg agtcaagccc gcntgancaa catggtctcc gccgtaagct catccgnacc 360  
 agctcgccag cgcaatgana ac 382

<210> 1033  
 <211> 292  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1033  
  
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 ggctgccgct ccgcaaggct gagcatgcat tctacttgga ctgggctgtc cactccttca 120  
 gaattaccaa ctgcgagatc caggacacca cccagatcca gaccacatg tgctactcca 180

acttcaacga catcatccac tcgatcatcg acatggacgc ggacgtgac accattgaga 240  
 actcgcggtc cgacgagaag ctgctctccg tgttccgcga gggcgtcaag ta 292

<210> 1034  
 <211> 320  
 <212> DNA  
 <213> Zea mays

<400> 1034

cttgacagcg agattaagtc ttggcttgct tttgctgccc agaaggttgt tgaggttgat 60  
 gctcttgcta aggcattggc tgggtcaaaag gatgaggctt acttcgcagc aaatgctgca 120  
 gctcaggcct cgaggaaatc ctcaccccggt gtgaccaatg aagaagtcca gaaggctgct 180  
 gctgctctca agggctctga ccaccgccgt gcgaccaacg ttagtgctag attggatgcc 240  
 cagcagaaga agcttaacct ccccatcctt cccaccacta caatcggttc gttcccacaa 300  
 accgttgagc tcaggagggt 320

<210> 1035  
 <211> 305  
 <212> DNA  
 <213> Zea mays

<400> 1035

acttcggtga gcagctctcc ggttttgctg tcaactgcaa tggctgggtg cagtcttatg 60  
 ggtcaagggtg cgtcaagcct ccgatcatct acggtgacgt gagccgcccc aaccccatga 120  
 ccggttttctg gtcgaagacg gcacagagca tgacgtctcg cccaatgaag gggatgctga 180  
 ctggcccagt cacaatcctc aactggctct tcgtccggaa tgaccagccg aggtttgaga 240  
 cttgctacca gatcgctctt gcgatcaaga aggaagtcga ggatcttgag gctgggtgga 300  
 ttcag 305

<210> 1036  
 <211> 278  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1036

caagaggagc ttgacattga tgtgcttgtg catggagagc caganagaaa tgacatgggtt 60  
gagtacttcg gtgagcaatt atctgggttt gcgttcactg ccaacggatg ggtgcaatcc 120  
tatggatcac gctgtgtgaa gccacccatt atctatgggtg atgtcagccg gccgaacccc 180  
atgactgttt tctgggtcaa gatggcacag agcatgaccc ctcgccccat gaaggggaatg 240  
ttgactggtc cggtcacaat cctgaactgg tcattcgt 278

<210> 1037  
<211> 298  
<212> DNA  
<213> Zea mays

<400> 1037

ctctgaggag gaatacgtca ctgccatcaa ggaggaaatc aacaaggctg ttaagcttca 60  
agaagagctt gacattgatg tgcttgtgca tggcgagcct gagagaaacg atatggttga 120  
gtacttcggt gagcagctct ccggttttgc gttcactgcc aatggctggg tgcagtctta 180  
tgggtcaagg tgcgtcaagc ctccgatcat ctacggtgac gtgagccgcc ccaacccccat 240  
gaccgttttc tggtcgaaga cggcacagag catgacgtct cgcccaatga aggggatg 298

<210> 1038  
<211> 298  
<212> DNA  
<213> Zea mays

<400> 1038

ctctgaggag gaatacgtca ctgccatcaa ggaggaaatc aacaaggctg ttaagcttca 60  
agaagagctt gacattgatg tgcttgtgca tggcgagcct gagagaaacg atatggttga 120  
gtacttcggt gagcagctct ccggttttgc gttcactgcc aatggctggg tgcagtctta 180  
tgggtcaagg tgcgtcaagc ctccgatcat ctacggtgac gtgagccgcc ccaacccccat 240  
gaccgttttc tggtcgaaga cggcacagag catgacgtct cgcccaatga aggggatg 298

<210> 1039  
<211> 447  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1039

ggcgctcggg gttgataccg tgccagtact tgttggacca gtctcgtacc tgttgcngnn 60  
 aaagcctgcc aagggtgtgg agaagggatt cccctcttctt tcccttctta gcagcatcct 120  
 cccagtctac aaggaggtca ttgctgagtt gaaggcagct ggggcttcat ggattcagtt 180  
 tgatgagccc actcttgtcc tcgaccttga ttctgacaaa ttggctgcat tctctgctgc 240  
 atatgcagaa cttgaatctg tactttctgg attgaatgtg cttgttgaga cttactttgc 300  
 tgatgttcct gctgagtcct acaagaccct aacatccctg aacagtgtga ctgcttatgg 360  
 gtttgatcnt gtccggggac ccnaaactnt tgggcttggc accaaggctg gnttccttnt 420  
 tggaanaaac cctntttgct gggggtg 447

<210> 1040  
 <211> 301  
 <212> DNA  
 <213> Zea mays

<400> 1040

ctccaagaag agcttgacat tgatgtgctt gtgcatggcg agcctgagag aaacgatatg 60  
 gttgagtact tcggtgagca gtcctcccg ttttgcgttc actgccaatg gctgggtgca 120  
 gtcttatggg tcaaggtgcg tcaagcctcc gatcatctac ggtgacgtga gccgccccaa 180  
 ccccatgacc gttttctggt cgaagacggc gcagagcatg acgtctcgcc caatgaaggg 240  
 gatgctgact ggcccagtca caatcctcaa ctggtccttc gtccggaatg accagccgag 300  
 g 301

<210> 1041  
 <211> 297  
 <212> DNA  
 <213> Zea mays

<400> 1041

caaggtcgtt aagctccaag aagagcttga cattgatgtg cttgtgcatg gcgagcctga 60  
 gagaaacgat atggttgagt acttcggtga gcagctctcc ggttttgcgt tcaactgccaa 120  
 tggctgggtg cagtcttatg ggtcaagggtg cgtcaagcct ccgatcatct acggtgacgt 180  
 gagccgcccc aaccccatga ccgttttctg gtcgaagagg cgcagagcat gacgtctcgc 240  
 ccaatgaagg ggatgctgac tggcccagtc acaatcctca actggtcctt cgtccgg 297



<210> 1042  
 <211> 548  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1042

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gnnnaggtgn tnannggggn nggaaggaac nttttaccgg tccggaattc ccgggtcgac 60
ccacgcgtcc gcccacgcgt ccgctcgatc atcgacatgg acgcggacgt gatcaccatt 120
gagaactcgc ggnccgacga gaagctgctc tccgtgttcc gcgagggcgt caagtacggc 180
gcgggcatcg gccccggtgt ctacgacatc cactcccca ggatcccgtc ggctgaggag 240
atcgccgacc gcatcgacaa gatgctggcg gtgctggaca ccaacatcct ctgggtgaac 300
cccgactgcy gcctcaagac ccgcaagtac acggaggtca agcccgctg accaacaatg 360
tctccgccgc taagctcatc cgcacccagc ttgncagcgc caagtgaagc cnttttttt 420
tgcctttttc ggtttcgaag aaggcgtcgt cgatgccaat ttggtttcca ataaaaaggc 480
tttgcccgcc gtctgtgnac tccgctgngg taaggtaaga agtttcttaa aaaaaaaaaa 540
angggggc 548

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<210> 1043  
 <211> 303  
 <212> DNA  
 <213> Zea mays

<400> 1043

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gacggcgcag agcatgacgt ctgcccgaat gaaggggatg ctgactggcc cagtcacaat 60
cctcaactgg tccttcgtcc ggaatgacca gccgaggttt gagacttgct accagatcgc 120
tcttgcatc aagaaggaag tcgaggatct cgaggctggt ggtattcagg ttatccaaat 180
cgacgaggct gcaactgagag aagggtgcc gctccgcaag gctgagcatg cattctaatt 240
ggactgggct gtccactcct tcagaatcac caactgcgag atccaggaca ccaccagat 300
cca 303

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<210> 1044  
 <211> 602  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1044

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gagggcgctca agtacggcgc gggcatcggc cccgggtgtct acgacatcca ctccccagc 120  
atcccgctcgg ctgaggagat cgccgaccgc atcgacaaga tgctggcggt gctggacacc 180  
aacatcctct ggggtgaaccc cgactgcggc ctcaagaccc gcaagtacac ggaggtcaag 240  
cccgccctga ccaacatggg ctccgccgct aagctcatcc gcacccagct cgccagcgcc 300  
aagtgagcac cttttttttg cttttttcgt ttccgaggag ggcgtcgtcg atgccaattt 360  
gtttccaata aacagggctg tgcccgcgct tctgttgtac tccgtctgtg gttagggttag 420  
tagttttctt gatctcgccc ccacgcggta cctgttttac tactctctgt ttggtggttt 480  
ctgaggcaag ttgcccgtgt acttgatcgc taaaaaccga gtgggacatc tgcacggtt 540  
catctgncac cactnccccg aggtgtgctg gttcacggct caaagaaaga tgtcntatcg 600  
gc 602

<210> 1045

<211> 273

<212> DNA

<213> Zea mays

<400> 1045

ggttgtcaag atccaagagg agcttgacat tgatgtgctt gtgcatggag agccagagag 60  
aaatgacatg gttgagtact tcggtgagca attatctggt tttgcgttca ctgccaacgg 120  
atgggtgcaa tcctatggat cacgctgtgt gaagccaccc attatctatg gtgatgtcag 180  
ccggccgaac cccatgactg ttttctggtc caagatggca cagagcatga cccctcgtcc 240  
catgaaggga atgttgactg gtccggtcac aat 273

<210> 1046

<211> 328

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1046

atcatcgccg ctgcgccgtc tcctccgctc ccgtcgtccg gaaagatggc gtcccacatt 60  
gttgataacc ctgcgatggg cccaagagg gagctcaagt ttgcacttga gtctttctgg 120  
gatgggaaga gcaccgctga ggatctggag aaggttgcta ccgacctcag ggccagtatc 180  
tggaagcaga tggtgatgc tgggatcaag tacatcccca gcaacacttt ctctactat 240  
gaccagggtcc ttgacaccac tgccatgctc ggcgctgtcc ccgaacgtta ctcatgnact 300  
ggaggagaga ttggatttga cacctact 328

<210> 1047  
<211> 297  
<212> DNA  
<213> Zea mays

<400> 1047

aaaaaagatc tctgaggagg aatacgtcac tgccatcaag gaggaaatca acaaggtcgt 60  
taagcttcaa gaagagcttg acattgatgt gcttgtgcat ggcgagcctg agagaaacga 120  
tatggttgag tacttcggtg agcagctctc cggtttgccg ttacttgcca atggctgggt 180  
gcagtcttat ggggtcaagggt gcgtcaagcc tccgatcatc tacggtgacg tgagccgccc 240  
caaccccatg accgttttct ggtcgaagac ggcacagagc atgacgtctc gcccaat 297

<210> 1048  
<211> 264  
<212> DNA  
<213> Zea mays

<400> 1048

ctctttcaga atcaccaact gcggagtcca ggacaccacc cagatccaca cccatatgtg 60  
ctactccaac ttcaacgaca tcatccactc catcatcgac atggacgcag atgtgatcac 120  
catcgagaac tcccgggtccg acgagaagct actgtccgtg ttccgcgagg gtgtgaagta 180  
cggagctgga atcgggtccag gtgtctacga catccactcg ccaggatcc cctccaccga 240  
ggagatcgcg gaccggtca acaa 264

<210> 1049  
<211> 471  
<212> DNA  
<213> Zea mays

<223>       unsure at all n locations  
 <400>       1049

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gggnnnnacg ttantcngcg ngnnccggtca naggacncac nggccgaggc ncgcgtccac   60
accnatcatc gccgctgcgc cgtctcctcc gctcccgtcg tccggaaaga tggcgctcca  120
cattgttggg taccctcgca tgggccccaa gagggagctc aagtttgac ttgagtcttt  180
ctgggatggg aagagcaccg ctgaggatct ggagaagggt gctaccgacc tcagggccag  240
tatctggaag cagatggctg atgctgggat caagtacatc cccagcaaca ctttctcgta  300
ctatgaccag gtccttgaca ccaactgccat gctcggcgct gtccccgaac gctactcatg  360
gactggagga gagattgggt ttgacaccta acttctccat ggccaagggc aacgccactg  420
tccctgctat gggagatacc aanttggttt tggacacaaa ctaccaactt t           471

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<210>       1050  
 <211>       291  
 <212>       DNA  
 <213>       Zea mays

<400>       1050

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cgctcccgtc gtccggaaag atggcgctcc acattgttgg ataccctcgc atgggccccca   60
agagggagct caagtttgca cttgagtctt tctgggatgg gaagagcacc gctgaggatc  120
tggagaagggt tgctaccgac ctcagggcca gtatctggaa gcagatggct gatgctggga  180
tcaagtacat ccccagcaac actttctcgt actatgacca ggtccttgac accactgcc  240
tgctcggcgc tgtccccgaa cgttactcat ggactggagg agagattgga t           291

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<210>       1051  
 <211>       349  
 <212>       DNA  
 <213>       Zea mays

<223>       unsure at all n locations  
 <400>       1051

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atccactcca tcatcgacat ggatgccgat gtgatcacga tcgagaactc ccgatctgac   60
gagaagctna ctgtccgtct tccgtgaggg tgtgaagtac ggagctgggc attggccctg  120
gtgtctacga catccactct cctaggattc acctccaccg aggagatcgc agaccgcgtc  180
gagaagatgc tcgccgtgct ggacaccaac atcctctggg tgaaccctga ctgtggtctc  240

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aanacacgca agtacacgga ggtcaagccc gccctgacca acatggtctc ggccancaag 300  
ctcatccgca cccagcttgc caacgcgaaa tgagtcgttt gatagctcc 349

<210> 1052  
<211> 333  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1052

gttctagcat ctggaagcaa atgtcagaag ctgggatcaa gtacattccc agcaacacct 60  
tctcgtacta tgaccagggtc cttgatacca cggccatgct tgggtgctgtc ccagagcgct 120  
actcttggac tggaggcgag attggcttga gcacctatth ctcaatggcc aggggaaatg 180  
ccactgtccc tgctatggag atgaccaagt ggtttgatac aaactaccac tttattgtcc 240  
ctgaattggc ccaagcacca agttcacata cgcttctcac aangctgttt ctgagtacaa 300  
ggaggcaaaa gcgctcggta ttgatatgtc cca 333

<210> 1053  
<211> 299  
<212> DNA  
<213> Zea mays

<400> 1053

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ctacatctct cagcactctc cagtctcttg aggctgttgt tgggaaggac aagcttgtcg 120  
tatcaacttc ctgctcgctc atgcacaccg ctgtggatct tgtgaacgag actaagcttg 180  
acagcgagat taagtcttgg cttgcttttg ctgcccagaa ggttgttgag gttgatgctc 240  
ttgctaaggc attggctggt caaaaggatg aggcttactt cgcagcaaat gctgcagct 299

<210> 1054  
<211> 281  
<212> DNA  
<213> Zea mays

<400> 1054

gctaccagat cgctcttgcg atcaagaagg aagtcgagga tcttgaggct ggtggtattc 60  
aggttatcca aatcgacgag gctgcactga gagaagggtc gccgctccgc aaggctgagc 120

atgcattcta cttggactgg gctgtccact ccttcagaat taccaactgc gagatccagg 180  
acaccaccca gatccacacc cacatgtgct actccaactt caacgacatc atccactcga 240  
tcatcgacat ggacgcggac gtgatcacca ttgagaatcg g 281

<210> 1055  
<211> 305  
<212> DNA  
<213> Zea mays

<400> 1055

cgccgctgcg ccgtctcctc cgctcccgtc gtccggaaaag atggcgtccc acattgttgg 60  
ataccctcgc atggggccca agagggagct caagtttgca cttgagtctt tctgggatgg 120  
gaagagcacc gctgaggatc tggagaaggt tgctaccgac ctcagggcca gtatctggaa 180  
gcagatggct gatgctggga tcaagtacat ccccagcaac actttctcgt actatgacca 240  
ggtccttgac accactgcca tgctcggcgc tgtccccgaa cgttactcat ggactggagg 300  
agaga 305

<210> 1056  
<211> 292  
<212> DNA  
<213> Zea mays

<400> 1056

ggctggtcaa aaggatgagg cttacttcgc agcaaagtct gctgctcagg cctcgaggaa 60  
atcctcacc cgtgtgacca atgaagaagt ccagaaggct gctgctgctc tcaagggtc 120  
tgaccaccgc cgtgggacca acgttagtgc tagattggat gccagcaga agaagcttaa 180  
cctccccatc cttcccacca ctacaatcgg ttctgtccca caaaccgttg agctcaggag 240  
ggtccgccgt gagtacaagg caaaaaagat ctctgaggag gaatacgtca ct 292

<210> 1057  
<211> 279  
<212> DNA  
<213> Zea mays

<400> 1057

atcaagaagg aagtcgagga tcttgaggct ggtggtattc aggttatcca aatcgacgag 60

gctgcactga gagaagggct gccgctccgc aaggctgagc atgcattcta cttggactgg 120  
gctgtccact ccttcagaat taccaactgc gagatccagg acaccacca gatccacacc 180  
cacatgtgct actccaactt caacgacatc atccactcga tcatcgacat ggacgcggac 240  
gtgatcacca ttgagaactc gcggtccgac gagaagctg 279

<210> 1058  
<211> 286  
<212> DNA  
<213> Zea mays

<400> 1058

atcgtctcttg cgatcaagaa ggaagtcgag gatctcgagg ctggtggtat tcaggttata 60  
caaatcgacg aggctgcact gagagaaggg ctgccgctcc gcaaggctga gcatgcattc 120  
tacttggaact gggctgtcca ctccctcaga atcaccaact gcgagatcca ggacaccacc 180  
cagatccaca cccacatgtg ctactccaac ttcaacgaca tcatccactc gatcatcgac 240  
atggacgcgg acgtgatcac catcgagaac tcgcggtccg acgaga 286

<210> 1059  
<211> 269  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1059

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catggttgag tacttcggtg agcaattatc tggttttgcg ttacttgcca acggatgggt 120  
gcaatcctat ggatcacgct gtgtgaagcc acccattatc tatggtgatg tcagccggnc 180  
gaaccccatg actgttttct ggtccaagat ggcacagagc atgaccctc gtcccatgaa 240  
gggaatgttg actggtccgg tcacaatcc 269

<210> 1060  
<211> 323  
<212> DNA  
<213> Zea mays

<400> 1060

gcaacatctg gggctgatga tcttgctaca tctctcagca ctctccagtc tcttgaggct 60  
gttggtggga aggacaagct tgctgtatca acttcctgct cgctcatgca caccgctgtg 120  
gatcttgatga acgagactaa gcttgacagc gagattaagt cttggcttgc ttttgctgcc 180  
cagaagggtg ttgagggtga tgctcttgct aaggcattgg ctgggtcaaaa ggatgaggct 240  
tacttcgcag caaatgctgc agctcaggcc tcgaggaaat cctcaccocg tgtgaccaat 300  
gaagaagtcc agaaggctgc tgc 323

<210> 1061

<211> 287

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1061

angatcttga ggctgctggt attcagggtga tccagattga tgaggcagct ctaagggagg 60  
gtctgccact gcgcaagtta gagcatgcat tctacctgga ctgggctgtc cactctttca 120  
gaatcaccaa ctgcggagtc caggacacca cccagatcca caccatattg tgctactcca 180  
acttcaanga catcatccac tccatcatcg acatggacgc agatgtgatc accatcgaga 240  
actcccgtc cgacgagaag ctactgtccg tgttccgcga ggtgtga 287

<210> 1062

<211> 295

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1062

cctcgcatgg gcccgaagag ggagctcaag tttgcacttg agtctttctg ggatgggaag 60  
agcaccgctg aggatntgga gaagggtgct accgacctca gggccagtat ctggaagcag 120  
atggctgatg ctgggatcaa gtacatcccc agcaacacct tctcgacta tgaccaggtc 180  
cttgacacca ctgccatgct cggcgtgtc cccgaacgct actcatggac tggaggagag 240  
attgggtttg acacctactt ctccatggcc aggggcaacg ccaactgtccc tgcta 295

<210> 1063

<211> 304

<212> DNA



<213> Zea mays

<400> 1063

gtcagagcat gcattctacc tggactgggc tgtccactct ttcaggatca ccaactgcgg 60  
agtccaggac accacccaga tccacaccca catgtgctac tccaacttca acgacatcat 120  
ccactccatc atcgacatgg atgccgatgt gatcacgacg gagaactccc gatctgacga 180  
gaagctactg tccgtcttcc gtgaggggtg gaagtacgga gctggcattg gccctgggtg 240  
ctacgacatc catctcctag gattccctcc accgaggaga tcgcagaccg cgtcgagaag 300  
atgc 304

<210> 1064

<211> 293

<212> DNA

<213> Zea mays

<400> 1064

ctgcgagatc caggacacca cccagatcca caccacatg tgctactcca acttcaacga 60  
catcatccac tcgatcatcg acatggacgc ggacgtgatc accatcgaga actcgcggtc 120  
cgacgagaag ctgctctccg tgttccgggg gtgtcaagta cggcgcgggc atcgggccccg 180  
gtgtctacga catccactcc cccaggatcc cgtcggccga ggagatcgcc gaccgcatcg 240  
acaagatgct ggccgtgctg gacaccaaca tcctctgggt gaacccccgac tgc 293

<210> 1065

<211> 285

<212> DNA

<213> Zea mays

<400> 1065

tcttggcttg cttttgctgc ccagaagggt gttgaggttg atgctcttgc taaggcattg 60  
gctggtcaaa aggatgaggc ttacttcgca gcaaagtctg ctgctcaggc ctcgaggaaa 120  
tcctcacccc gtgtgaccaa tgaagaagtc cagaaggctg ctgctgctct caagggctct 180  
gaccaccgcc gtgggaccaa cgtagtgct agattggatg cccagcagaa gaagcttaac 240  
ctcccatcc ttcccaccac tacaatcggg tcgttccac aaacc 285

<210> 1066

<211> 285  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1066

gggctgtcca ctccttcaga attaccaact gcgagatcca ggacaccacc cagatccaca 60  
 cccacatgtg ctactccaac ttcaacgaca tcatccactc gatcatcgac atggacgcgg 120  
 acgtgatcac cattgagaac tcgcggtccg acgagaagct gctctccgtg ttccgcgagg 180  
 gcgtcaagta tggcgcgggc atcggccccg gtgtctacga catccactcc cccaggatcc 240  
 cgtcggctga ggagatcgcc gaccgcatcg acaagatntg gcggt 285

<210> 1067  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<400> 1067

tctggaagca gatggctgat gctgggatca agtacatccc cagcaacact ttctcgact 60  
 atgaccaggt ccttgacacc actgccatgc tcggcgctgt ccccgaaagt tactcatgga 120  
 ctggaggaga gattggattt gacacctact tctccatggc caggggcaac gccactgttc 180  
 ctgctatgga gatgaccaag tggtttgaca ccaactacca ctttattgtc cctgaattgg 240  
 gcccaaacac caagttctcc tatgcttctc acaaggc 277

<210> 1068  
 <211> 280  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1068

cccagatcca caccacatg ngcncgtcca acttcaacga catcatccac tcgatcatcg 60  
 acanggacgc ggacgtgatc accatcgaga actcgcggtc cgacgagaag ctgctctccg 120  
 tggtccgtga ggggtgtcaag tacggcgcgg gcatcgggcc cgggtgtctac gacatccact 180  
 cccccaggat cccgtcggcc gaggagatcg ccgaccgcat cgacaagatg ctggccgtgc 240  
 tggacaccaa catcctctgg gtgaaccccc actgcggcct 280

<210> 1069

<211> 297

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1069

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cattgatntg cttgtgcatg gcgagcctga nagaacgat atggttgagt acttcggtga 60
gcagctctcc ggttttgcgt tcaactgcaa tggctgggtg cagtcttatg ggtcaagggtg 120
cgtcaagcct ccgatcatct acggtgacgt gagccgcccc aaccccatga ccgttttctg 180
gtcgaagagg cgcagagcat gacgtctcgc ccaatgaagg ggatgctgac tggncagtc 240
acaatcctca actggtcctt cgtccggaat gaccagccga ggtttgaaac tgcnaac 297
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<210> 1070

<211> 289

<212> DNA

<213> Zea mays

<400> 1070

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cgtcactgcc atcaaggagg aaatcaacaa ggtcgttaag cttcaagaag agcttgacat 60
tgatgtgctt gtgcatggcg agcctgagag aaacgatatg gttgagtact tcggtgagca 120
gctctccggt tttgcgttca ctgccaatgg ctgggtgcag tcttatgggt caagggtcgt 180
caagcctccg atcatctacg gtgacgtgag ccgccccaac cccatgaccg ttttctggtc 240
gaagaggcac agagcatgac gtctcgccca atgaagggga tgctgactg 289
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<210> 1071

<211> 486

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1071

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gctcagcaga aaaagctcaa ccttcnngtc cnncccacaa ccacaattgg ttcattcccg 60
gaaacggtgg aactcaggng ggttcgncgt gaatacaagg caaagaagat caccgaggac 120
gaatacatca gtgccatcaa ggaagaaatc agcaaggtn gcaagatcca ataggagctn 180
gacattgatg tgcttgtgca tggagagcca gagagaaatg acatgggttg gtacttcggn 240
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gagcaattat ctggttttag cgttcactgc caacggatgg gtgcaatnct attgatcacg 300  
 ctgtggtgaa gccacccatt atctatgnga tgtcaaagcg gcccnacccc atnctgntnt 360  
 ctgggtcccaa gatngancat acatgacccc tttnnccatg naagggaatg gttgactggg 420  
 tcnngtcaca attcttaaac ttggtcattn gntaaaggaa cgacnancct taggtttnaa 480  
 anannc 486

<210> 1072  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1072

aaccccatga ccgttttctg gtcgaagagg tcacagagca tgacgtctcg cccaatgaag 60  
 gggatgctga ctggcccagt cacaatcctc aactggctct tcgtccggaa tgaccagccg 120  
 aggtttgaga cttgctacca gntcgctctt gcgatcaaga aggaagtcga ggatcttgag 180  
 gctggtggta ttcaggttat ccaaatacga gaggctgcac tgagagaagg gctgccgctc 240  
 cgcaangctg agcatgcatt ctacttggac tgggctgtcc actcct 286

<210> 1073  
 <211> 305  
 <212> DNA  
 <213> Zea mays

<400> 1073

gaagagcttg acattgatgt gcttgtgcat ggcgagcctg agagaaacga tatggttgag 60  
 tacttcggtg agcagctctc cggttttgcg ttcactgcc aatggctgggt gcagtcttat 120  
 gggtaaggt gcgtcaagcc tccgatcatc tacggtgacg tgagccgccc caaccccatg 180  
 accgttttct ggtcgaagac ggcacagagc atgacgtctc gcccaatgaa ggggatgctg 240  
 actggcccag tcacaatcct caactggtct tcgtccggaa tgaccagccg aggtttgaga 300  
 ttgct 305

<210> 1074  
 <211> 291  
 <212> DNA  
 <213> Zea mays

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<223>      unsure at all n locations
<400>      1074
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<210>	1075
<211>	297
<212>	DNA
<213>	Zea mays

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cgacctcagg	gccagtatct	ggaagcagat	ggctgangct	gggatcaagt	acatccccag	120
caacactttc	tcgtactatg	accaggtcct	tgacaccact	gccatgctcg	gcgctgtccc	180
cgaacgttac	tcatggactg	gaggagagat	tggatttgac	acctacttct	ccnnggccag	240
gggcaacgcc	actgttcctg	ctatggagat	gaccangtgg	tttgacacca	ataccac	297

<210>	1076
<211>	312
<212>	DNA
<213>	Zea mays

acctatcatc	gccgctgcg	cgtctcctcc	gctcccgtcg	tccggaaaga	tggcgtccca	60
cattgttgg	taccctcgca	tgggccccaa	gagggagctc	aagtttgcac	ttgagtcctt	120
ctgggatggg	aagagcaccg	ctgaggatct	ggagaagggt	gctaccgacc	tcagggccag	180
tatctggaag	cagatggctg	atgctgggat	caagtacatc	cccagcaaca	ccttctcgta	240
ctatgaccag	gtccttgaca	ccactgccat	gctcggcgct	gtccccgaac	gctactcatg	300
gactggagga	ga					312

<210> 1077  
 <211> 307  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1077  
  
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 cttgtgaacg agactaagct tgacagcgag attaagtctt ggcttgcttt tgctgcccag 120  
 aaggttggtt aggggtganc tcttgctaag gcantggctg gtcaaaagga tgaggcttac 180  
 ttcgcagcaa atgctgctgc tcaggcctcg aggaaatcct caccocgtgt gaccaatgaa 240  
 gaagtccaga aggctgctgc tgctctcaag ggctctgacc accgccgtgg gaccaacgtt 300  
 agtgcta 307

<210> 1078  
 <211> 274  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1078  
  
 ggcgtccac attgttggat accctcgcat gggccccaag anggagctca agtttgact 60  
 tgagtctttc tgggatggga agaacaccgc tgagnatctg gagaagggtt ctaccgacct 120  
 cagggccagt atctggaagc agatggctga tgctgggatc aagtacatcc ccagcaacac 180  
 tttctcgta tatgaccagg tccttgacac cactgccatg ctcagcgtg tccccgaacg 240  
 ttactcatgg actggaggag agattggatt tgac 274

<210> 1079  
 <211> 289  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1079  
  
 gagagattgg atttgacacc tacttctcca tggccagggg caacgccact gttcctgcta 60  
 tggagatgac caagtgggtt gacaccaact accactttat tgtccctgaa ttgggcccac 120  
 acaccaagtt ctctatgct tctcacaagg ctgttaacga atataaggag gctaaggcgc 180  
 tcggtgttga taccgtgccg gtacttggtg gaccagtctc gtacctgttg ctctcaaagc 240

ctgccaaggg tgtggagaag ggattccctc ttctttccct tcttagcag 289

<210> 1080

<211> 286

<212> DNA

<213> Zea mays

<400> 1080

ctaagcttga cagcgagatt aagtcttggc ttgcttttgc tgcccagaag gttgttgagg 60

ttgatgctct tgctaaggca ttggctgggc aaaaggatga ggcttacttc gcagcaaatg 120

ctgcagctca ggcctcgagg aaatcctcac cccgtgtgac caatgaagaa gtccagaagg 180

ctgctgctgc tctcaagggc tctgaccacc gccgtgacac caacgttagt gctagattgg 240

atgccagca gaagaagctt aacctcccca tccttccac cactac 286

<210> 1081

<211> 323

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1081

cgccgctgcg ccgtctcctc cgtccccgtc gtccggaaag atggcgtccc acattgttgg 60

ataccctcgc atgggccccca agaggagct caagtttgca cttgagtctt tctgggatgg 120

gaagagcacc gctgaggatc tggagaaggc tgctaccgac ctcagggcca gtatctggaa 180

gcagatggct gatgctggga tcaagtacat cccagcaac accttctcgt actatgacca 240

ggtccttgac accactgccca ngctcggcgc tgtccccgaa cgntactcat ggactgggng 300

gagaaattgg gtttcacacc tat 323

<210> 1082

<211> 305

<212> DNA

<213> Zea mays

<400> 1082

cacaaaccgt tgcagctcag gaggggtccgc cgtgagtaca aggcaaaaaa gatctctgag 60

gaggaatacg tcaactgcat caaggaggaa atcaacaagg tcgttaagct ccaagaagag 120

cttgacattg atgtgcttgt gcatggcgag cctgagagaa acgatatggg tgagtacttc 180  
 ggtgagcagc tctccggttt tgcgttcact gccaatggct ggggtgcagtc ttatgggtca 240  
 aggtgcgtca agcctccgat catctacggt gactgagccg ccccaacccc atgaccgttt 300  
 tctgg 305

<210> 1083  
 <211> 281  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1083

gtacaaggca aaaaatatct ctgaggagga atacgtcact gccatcaagg aggaaatcaa 60  
 caaggtcgtt aagcnccaag aagagcttga cattgangtg cttgtgcatg gcgagcctga 120  
 ganaaacgat atggttgagt acttcggtga gcagctctcc ggttttgcgt tcaactgcaa 180  
 tggctgggtg cagtcttatg ggtcaagggtg cgtcaagcct ccgatcatct acggtgacgt 240  
 gagccgcccc aaccccatga ccgttttctg gtcgnagacg g 281

<210> 1084  
 <211> 314  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1084

gaccagccga ggtttgagac ttgctaccag atcgctcttg cgatcaagaa ggaagtcgag 60  
 gatctcgagg ctggtggtat tcaggttatc caaatcgacg aggctgcact gagagaaggg 120  
 ctgccgctcc gcaaggctga gcatgcattc tacttggacn gggctgtcca cnccttcaga 180  
 atcaccaacn gcgagatcca ggacaccacc cagatccaca cccacatgtg ctacnccaac 240  
 ttcaacgaca tcatccactc gatcatcgac atggacgcgg ngtgatcacc acgaganncn 300  
 ggtcgcgaga actg 314

<210> 1085  
 <211> 281  
 <212> DNA  
 <213> Zea mays



<400> 1085

gtgtgaccaa tgaagaagtc cagaaggctg ctgctgctct caagggtctt gaccaccgcc 60  
gtgggaccaa cgttagtgt agattggatg cccagcagaa gaagcttaac ctccccatcc 120  
ttcccaccac tacaatcggc tcgttcccac aaaccgttga gctcaggagg gtccgccgtg 180  
agtacaaggc aaaaaagatc tctgaggagg aatacgtcac tgccatcaag gaggaaatca 240  
acaaggctgt taagcttcaa gaagagcttg acattgatgt g 281

<210> 1086

<211> 306

<212> DNA

<213> Zea mays

<400> 1086

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ttgttgata ccctcgcgtg ggccccaaga gggagctcaa gtttgactt gagtctttct 120  
gggatgggaa gagcaccgct gaggatctgg agaagggtgc taccgacctc agggccagta 180  
tctggaagca gatggctgat gctgggatca agtacatccc cagcaacacc ttctcgtact 240  
atgaccaggt ccttgacacc actgccatgc tcggcgtgt cccggaacgc tactcatgga 300  
ctggag 306

<210> 1087

<211> 265

<212> DNA

<213> Zea mays

<400> 1087

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caagtcagag catgcattct acctggactg ggctgtccac tctttcagga tcaccaactg 120  
cggagtccag gacaccaccc agatccacac ccacatgtgc tactccaact tcaacgacat 180  
catccactcc atcatcgaca tggatgccga tgtgatcacg atcgagaact cccggtctga 240  
cgagaagcta ctgtccgtct tccgt 265

<210> 1088

<211> 266

<212> DNA

<213> Zea mays  
 <400> 1088  
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 caggaggggtc cgccgtgagt acaaggcaaa aaagatctct gaggaggaat acgtcactgc 120  
 catcaaggag gaaatcaaca aggtcggttaa gcttcaagaa gagcttgaca ttgatgtgct 180  
 tgtgcatggc gagcctgaga gaaacgatat gggttgagtac ttcggtgagc agctctccgg 240  
 ttttgcgttc actgccaatg gctggg 266

<210> 1089  
 <211> 311  
 <212> DNA  
 <213> Zea mays  
 <400> 1089  
 agcagctctc cggttttgcg ttcactgcca atggctgggt gcagtcttat gggccaaggt 60  
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 ggtcgaagac ggcacagagc atgacgtctc gcccaatgaa ggggatgctg actggcccag 180  
 tcacaatcct caactgggtcc ttcggtccgga atgaccagcc gaggtttgag acttgcctacc 240  
 agatcgctct tgcatcaag aagggaagtcg aggatttgag gctggtggtta ttcagggttat 300  
 ccaaatcgac g 311

<210> 1090  
 <211> 309  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 1090  
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 ggatgggaag agcaccgctg aggatctgga gaaggttgct accgacctca gggccagtat 180  
 ctggaagcag atggctgatg ctgggatcaa gtacatcccc agcaacacct tctcgacta 240  
 tgaccagggtc cttgacacca ctgccatgct cggcgctgtc cccgaacgct antcatggac 300  
 tggaggaga 309

<210> 1091  
 <211> 291  
 <212> DNA  
 <213> Zea mays

<400> 1091

cgatcatcga catggacgcg gacgtgatca ccatcgagaa ctgcgcgtcc gacgagaagc 60  
 tgctctccgt gttccgtgag ggtgtcaagt acggcgcggg catcggcccc ggtgtctacg 120  
 acatccactc ccccaggatc ccgtcggccg aggagatcgc cgaccgcacg gacaagatgc 180  
 tggccgtgct ggacaccaac atcctctggg tgaaccccga ctgcggcctc aagacccgca 240  
 agtacacgga ggtcaagccc gccctgacca acatggtctc cgctgctaag t 291

<210> 1092  
 <211> 295  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1092

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 aggaaatcaa caaggctcgn ccagcttcaa gaancagctt gacattgatg tgcttgtgca 120  
 tggcgagcct gagagaaaacg atatggttga gtaacttcggt gagcagctct ccggttttgc 180  
 gttcactgcc aatggctggg tgcaagtctta tgggtcaagg tgcgtcaagc ctccgatcat 240  
 ctacggtgac gtgagccgcc ccaaccccat gaccgttttc tggtcgaaga ggcac 295

<210> 1093  
 <211> 285  
 <212> DNA  
 <213> Zea mays

<400> 1093

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 tctggtcgaa gaggcgcaga gcatgacgtc tcgcccgaatg aaggggatgc tgactggccc 120  
 agtcacaatc ctcaactggt ccttcgtccg gaatgaccag ccgaggtttg agacttgcta 180  
 ccagatcgct cttgcgatca agaaggaagt cgaggatctc gaggctggtg gtattcaggt 240

tatccaaatc gacgaggctg cactgagaga agggctgccg ctccg 285

<210> 1094

<211> 266

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1094

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gntgtccact ccttcagaat tnccaactgc gagatccagg acaccnccca gatccacacc 120

cacatgtgct actccaactt caacgacatc atccactcga tcatcgacat ggacgcggac 180

gtgatcacca ttgagaactc gcggtccgac ganaagctgc tctccgtgtt ccgcgagggc 240

gtcaagtacg gcgcgggcat cggccc 266

<210> 1095

<211> 327

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1095

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tgagacttgc taccagatcg ctcttgatg caagaaggaa gtcgaggatc ttgaggctgg 120

tggtattcag gttatccaaa tcgacgagggc tgactgaga gaagggtgc cgctccgcaa 180

ggctgagcat gcattctact tggactgggc tgtccactcc ttcagaatta ccaactgcga 240

gatccaggac accacccaga tccacaccca catgtgctat ccaattcacg acatcatcca 300

tcgatcatcg ncatggngcg gcgtgat 327

<210> 1096

<211> 259

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1096

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ccatcatcga catggatgcc gatgtgatca cgatcgagaa ctcccgtct gacgagaagc 120

tactgtccgt cttccgtgag ggtgtgaagt acggagctgg cattggccct ggtgtctacg 180  
 acatccactc tcctaggatt ccctccaccg aggagatcgc agaccgcgtc gagaagatgc 240  
 tcgcngtgtn gananaant 259

<210> 1097  
 <211> 280  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 1097

cgacgagaag ctactgtccg tgttccgcga nggtgtgaag tacggagctg gaatcgggtcc 60  
 aggtgtctac gacatccact cgcccaggat cccctccacc gaggagatcg cggaccgcgt 120  
 caacaagatg ctcgccgtgc tcgacaccaa catcctctgg gtgaaccctg actgcggtct 180  
 caagacacgc aagtacacgg aggtgaagcc tgccctgacc aacatgggtct ccgccaccaa 240  
 gctcatccgc acccagctcg gcagcgcgaa atgagtcaga 280

<210> 1098  
 <211> 303  
 <212> DNA  
 <213> Zea mays  
 <400> 1098

gcgtcctcct cacctatcat cgccgctgcg ccgtctcctc cgctcccgtc gtccggaaaag 60  
 atggcggtccc acattgttgg ataccctcgc atggggccca agagggagct caagtttgca 120  
 cttgagtctt tctgggatgg gaagagcacc gctgaggatc tggagaaggt tgctaccgac 180  
 ctcagggcca gtatctggaa gcagatggct gatgctggga tcaagtacat ccccagcaac 240  
 actttctcgt actatgacca ggtccttgac accactgcca tgctcggcgc tgtccccgaa 300  
 cgt 303

<210> 1099  
 <211> 305  
 <212> DNA  
 <213> Zea mays  
 <400> 1099

cctcacctat catcgccgct gcgccgtctc ctccgctccc gtcgtccgga aagatggcgt 60  
cccacattgt tggataccct cgcattgggcc ccaagaggga gctcaagttt gcacttgagt 120  
ctttctggga tgggaagagc accgctgagg atctggagaa ggttgctacc gacctcaggg 180  
ccagtatctg gaagcagatg gctgatgctg ggatcaagta catccccagc aacactttct 240  
cgtactatga ccaggctcctt gacaccactg ccatgctcgg cgctgtcccc gaacgttact 300  
catgg 305

<210> 1100

<211> 303

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1100

cngacgntgg ncgccgctgc gccgtctcct ccgctcccgt cgtccggaaa gatggcgtcc 60  
cacattgttg gantaccctc gcatggggccc caagaggagg ctcaagtttg cacttgagtc 120  
tttctgggat gggaagagca ccgctgagga tctggagaag gttgctaccg acctcagggc 180  
cagtatctgg aagcagatgg ctgatgctgg gatcaagtac atccccagca aactttctc 240  
gtactatgac caggggcaac gccactgttc ctgctatgga gatgaccaag tggtttgaca 300  
cca 303

<210> 1101

<211> 288

<212> DNA

<213> Zea mays

<400> 1101

aggtgcgta agcctccgat catctacggt gacgtgagcc gcccacccc catgaccgtt 60  
ttctggtcga agaggcacag agcatgacgt ctcgcccaat gaaggggatg ctgactggcc 120  
cagtcacaat cctcaactgg tccttcgtcc ggaatgacca gccgaggttt gagacttgct 180  
accagatcgc tcttgcatc aagaagggaag tcgaggatct tgaggctggt ggtattcagg 240  
ttatccaaat cgacgaggct gactgagag aagggtgcc gctccgca 288

<210> 1102

<211> 275

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1102  
  
 cccacatgtg ctactccaac ttcaacgaca tcatccactc gatcatcgnc catggacgcg 60  
 gacgtgatca ccatcgagaa ctgcggtcc gacgagaagc tgctctccgt gttccgtgag 120  
 ggtgtcaagt acggcgcggg catcggtccc ggtgtctacg acatccactc ccccaggatc 180  
 ccgtcggccg aggagatcgc cgaccgcacg gacaagatgc tggccgtgct ggacaccaac 240  
 atcctctggg tgaaccccga ctgcggcctc aagac 275

<210> 1103  
 <211> 319  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1103  
  
 gtgagccgcc ccaaccccat gaccgttttc tggtcgaaga cgggcgcaga gcatgacgtc 60  
 tcgccaatg aaggggatgc tgactggccc agtcacaatc ctcaactggt ccttcgtccg 120  
 gaacgaccag ccgaggtttg agacttgcta ccagatcgct cttgcgatca agaagggaagt 180  
 cgaggatctt gaggctggtg gtattcaggt tatccaaatc gacgaggctg cactgagaga 240  
 agggctgccg ctccgcaagg ctgagcatgc attctacttg gatgggctgt ccatccttca 300  
 gaataccaac tgcgagatc 319

<210> 1104  
 <211> 277  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1104  
  
 ctcttgctaa ggcatgggt ggtcaaaagg atgaggctta cttcgcagca aatgctgctg 60  
 ctcaggcctc gaggaaatcc tcaccccgctg tgaccaatga agaagtccag aaggctgctg 120  
 ctgctctcaa gggctctgac caccgcccgtg ggaccaacgt tagtgctaga ttggatgccc 180  
 agcagaagaa gcttaacctc cccatccttc ccaccactac aatcggttcg ttcccacaaa 240  
 ccgttgagct caggagggct cgccgtgagt acaangc 277

<210> 1105  
 <211> 308  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1105

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 gagtacttcg gtgagcagct ctccggtttt gcgttcactg ccaatggctg ggtgcagtct 120  
 tatgggtcaa ggtgcgtcaa gcctccgata atctacggtg angcnnaccg ccccaacccc 180  
 atgaccgttt tctggctgaa gacggcacag agcatgacgt ctgcgccaat gaaggggatg 240  
 ctgactggcc cagtcacaat cctcaatggc ccttcgtccg gaatgaccan ccgangtttg 300  
 agatttct 308

<210> 1106  
 <211> 313  
 <212> DNA  
 <213> Zea mays

<400> 1106

ggaggctaag gcgctcgggtg ttgataccgt gccagtactt gttggaccag tctcgtacct 60  
 gttgctctca aagcccgcca aggggtgtgga gaagggattc cctcttcttt cccttcttag 120  
 cagcatcctc ccagtctaca aggaggtcat tgctgagttg aaggcagctg gggcttcatg 180  
 gattcagttt gatgagccca ctcttgtcct cgaccttgat tctgacaaat tggctgcatt 240  
 ctctgctgca tacgcagaac ttgaatctgt actttctgga ttgaatgtgc ttgttgagac 300  
 ttactttgct gat 313

<210> 1107  
 <211> 279  
 <212> DNA  
 <213> Zea mays

<400> 1107

gatgaggctt acttcgcagc aaatgctgca gctcaggcct cgaggaaatc ctcaccccgt 60  
 gtgaccaatg aagaagtcca gaaggctgct gctgctctca agggctctga ccaccgccgt 120



gcgaccaacg ttagtgctag attggatgcc cagcagaaga agcttaacct ccccatcctt 180  
cccaccacta caatcgggttc gttcccacaa accgttgagc tcaggagggt ccgccgtgag 240  
tacaaggcaa aaaagatctc tgaggaggaa tacgtcact 279

<210> 1108  
<211> 264  
<212> DNA  
<213> Zea mays

<400> 1108

aaacgaggag gtccaaaagg ctgcagctgc tttgaagggt tctgaccacc gccgtgctac 60  
cactgttgct gctagattgg atgctcagca gaaaaagctc aaccttcctg tccttcccac 120  
aaccacaatt ggttcattcc ctccagactgt ggaactcagg aggggtccgtc gtgagtacaa 180  
ggcaaagaag atctccgagg aggaatacat cagtgccatc aaggaagaaa tcagcaagggt 240  
tgtcaagatc caagaggagc ttga 264

<210> 1109  
<211> 275  
<212> DNA  
<213> Zea mays

<400> 1109

ggttgatgct cttgctaagg cattggctgg tcaaaaaggat gaggcttact tcgcagcaaa 60  
tgctgctgct caggcctcga ggaaatcctc accccgtgtg accaatgaag aagtccagaa 120  
ggctgctgct gctctcaagg gctctgacca ccgccgtggg accaacgtta gtgctagatt 180  
ggatgcccag cagaagaagc ttaacctccc catccttccc accactacaa tcggttcgtt 240  
cccacaaacc gttgagctca ggagggtccg ccgtg 275

<210> 1110  
<211> 278  
<212> DNA  
<213> Zea mays

<400> 1110

ctcatggact ggaggagaga ttggatttga cacctacttc tccatggcca ggggcaacgc 60  
cactgttcct gctatggaga tgaccaagtg gtttgacacc aactaccact ttattgtccc 120

tgaattgggc ccaaacacca agttctccta tgcttctcac aaggctgtta acgaatataa 180  
ggaggctaag gcgctcggtg ttgataccgt gccagtactt gttggaccag tctcgtacct 240  
gttgctctca aagcctgcc aagggtgtgga gaagggat 278

<210> 1111  
<211> 310  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1111

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acattgttgg ataccctcgc atgggccccca agaggggagct caagtttgca cttgagtctt 120  
tctgggatgg gaagagcacc gctgaggatc tggagaaggt tgctaccgac ctcagggccca 180  
gtatctggaa gcagatggct gatgctggga tcaagtacat cccagcaac accttctcgt 240  
actatgacca ggtccttgac accactgcc a tgctcggcgc tgtccccana acgctactca 300  
tggactggag 310

<210> 1112  
<211> 265  
<212> DNA  
<213> Zea mays

<400> 1112

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gatgtgcttg tgcatggcga gcctgagaga aacgatatgg ttgagtactt cggtagcag 120  
ctctccgggtt ttgcgttcac tgccaatggc tgggtgcagt cttatgggtc aagggtgcgtc 180  
aagcctccga tcatctacgg tgacgtgagc cgcccccaacc ccatgaccgt tttctgggtcg 240  
aagacggcgc agagcatgac gtctc 265

<210> 1113  
<211> 305  
<212> DNA  
<213> Zea mays

<400> 1113

cgacgagaag ctactgtccg tgttccgcga ggggtgtgaag tacggagctg gaatcgggtcc 60

aggtgtctac gacatccaact tcgcccagga tcccctccac cgaggagatc gcggaccgcg 120  
tcaacaagat gctcgccgtg ctcgacacca acatcctctg ggtgaaccct gactgcggtc 180  
tcaagacacg caagtacacg gaggtgaagc ctgccctgac caacatggtc tccgccacca 240  
agctcatccg caccagctc ggcagcgcga aatgagtcag atttggtaga tccatggttt 300  
gttga 305

<210> 1114  
<211> 310  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1114

gtggtttgac accaactacc actttattgt ccctgaattg ggcccaaaca ccaagttctc 60  
ctatgcttct cacaaggctg ttaacgaata taaggaggct aaggcgctcg gtgttgatac 120  
cgtgccagta cttgttggac cagtctcgta cctgttgctc tcaaagcctg ccaagggtgt 180  
ggagaaggga ttccctcttc ttcccttct tagcagnact tcccagtcta caaggaggtc 240  
attgctgagt tgaaggcagc tggggcttca ggattcagtt tgatgagccc atcttgtcct 300  
cgactngatt 310

<210> 1115  
<211> 331  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1115

taagcttcaa gaagagcttg acattgatgt gcttngcat ggcgagcctg anagaaacga 60  
tatggttgag tacttcggtg agcagctctc cggttttgcg ttactgcca atggcngggt 120  
gcagtcttat ggggtcaaggc gcgtcaagcc tccgatcatc tacggtgacg tgagccgccc 180  
caaccccatg accgttttct gggtcgaagac gggcacagag catgacgtct cgcccaatga 240  
angggatgct gactggccca gtcacaatcc tcnactggtc ttcgctccgga atgaccagcc 300  
gangttgaga ttgctacnag atcgctcttg c 331

<210> 1116

<211> 279

<212> DNA

<213> Zea mays

<400> 1116

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aacaaggctg ttaagcttca agaagagctt gacattgatg tgcttggtgca tggcgagcct   60
gagagaaaacg atatggttga gtacttcggt gagcagctct ccggttttgc gttcactgcc  120
aatggctggg tgcagtctta tgggtcaagg tgcgtcaagc ctccgatcat ctacggtgac  180
gtgagccgcc ccaaccccat gaccgttttc tggtcgaaga ggcacagagc atgacgtctc  240
gcccaatgaa ggggatgctg actggcccag tcacaatcc                               279
```

<210> 1117

<211> 292

<212> DNA

<213> Zea mays

<400> 1117

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atcgccgctg cgccgtctcc tccgtccccg tcgtccggaa agatggcgctc ccacattggt   60
ggataccctc gcatggggcc ccaagagggg gctcaagttt gcacttgagt ctttctggga  120
tgggaagagc accgctgagg atctggagaa ggttgctacc gacctcaggg ccagtatctg  180
gaagcagatg gctgatgctg ggatcaagta catccccagc aacactttct cgtactatga  240
ccaggtcctt gacaccactg ccatgctcgg cgctgtcccc gaacgttact ca           292
```

<210> 1118

<211> 270

<212> DNA

<213> Zea mays

<400> 1118

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gaggaaatca acaaggctgt taagctccaa gaagagcttg acattgatgt gcttggtgcat   60
ggcgagcctg agagaaaacga tatggttgag tacttcggtg agcagctctc ccggttttgcg  120
ttcactgcca atggctgggt gcagtcttat ggggtcaagg gcgtaagcc tccgatcatc  180
tacggtgacg tgagccgccc caaccccatg accgttttct ggtcgaagag gcgcagagca  240
tgacgtctcg cccaatgaag gggatgctga                               270
```

<210> 1119  
 <211> 252  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1119  
  
 cagcagaaga agcttaacct acccatcctt ccnccccacta caatagggtc gttccccacaa 60  
 accgttgagc tcaggagggt ccgccgtgag tacaaggcaa aaaagatctc tgaggaggaa 120  
 tacgtcactg ccatcaagga ggaaatcaac aagggtcgta agctccaaga agagcttgac 180  
 attgatgtgc ttgtgcatgg cgagcctgag agaaacgata tggttgagta cttcggtgag 240  
 cagctctccg gt 252

<210> 1120  
 <211> 284  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1120  
  
 cgttttctgg tcgaagaggc acagagcatg acgtctcgcc caatgaaggg gatgctgact 60  
 ggcccagtca caatcctcaa ctggctcctt gtccggaatg accagccgag gtttgagact 120  
 tgctaccaga tcgctcttgc gatcaagaag gaagtcgagg atcttgaggc tgggtgtatt 180  
 caggttatcc aaatcgacga ggctgcactg agagaagggc tgccgctccg caaggctgag 240  
 catgcattct acttggaactg ggctgtccac tccttcagaa ttac 284

<210> 1121  
 <211> 287  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1121  
  
 cgctcatgca caccgctgtg gatcttgtga acgagactaa gcttgacagc gagattaagt 60  
 cttggcttgc ttttgctgcc cagaagggtt ttgagggtga tgctcttgct aaggcattgg 120  
 ctgggtcaaaa ggatgaggct tacttcgcag caaatgctgc tgctcaggcc tcgaggaaat 180  
 cctcaccgctg tgtgaccaat gaagaagtcc agaaggctgc tgctgctctc aagggtctctg 240  
 accaccgctg tgggaccaac gttagtgtga gattggatgc ccagcag 287

<210> 1122

<211> 290

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1122

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cggacntggn cgcgtgtgga tcttgtgaac gagactaagc ttgacagcga gattaagtct 60
tggcttgctt ttgctgcccc gaagggttgtt gaggttgatg ctcttgctaa ggcataggct 120
gggtcaaaagg atgaggctta ctctgcagca aatgctgcag ctgaggcctc gaggaaatcc 180
tcaccccgctg tgaccaatga agaagtcag aaggctgctg ctgctctcaa gggctctgac 240
caccgccgtg cgaccaacgt tagtgctaga ttggatgccc agcagaagaa 290
```

<210> 1123

<211> 344

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1123

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cgtcactgcc atcaaggagg naatcaacaa ggtcgttaag cttcaagaag agcttgacat 60
tgatgtgctt gtgcatggcg agcctgagag aaacgatatg gttgagtact tcggtgagca 120
gctctccggt tttgcgttca ctgccaatgg ctgggtgcag tcttatgggt caaggtgcgt 180
caagcctccg atcancnacg gtgacgtgag cggccccaac cccatgaccg ttttctggtc 240
gaagacggca cagagcatga cgtctcgccc atgangggat gctgctggcc catcacaanc 300
ctcaatngtc cttcgtccgg atgaccagcg agttgagntt ctac 344
```

<210> 1124

<211> 261

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1124

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cgtcactgcc atcaaggagg aaatcaacaa ggtcgttaag ctcnaagaag agcttgacat 60
tgatgtgctt gtgcatggcg agcctgagag aaacgatatg gttgagtact tcggtgagca 120
gctctccggt tttgcgttca ctgccaatgg ctgggtgcag tcttatgggt caaggtgcgt 180
```

caagcctccg atcatctacg gtgacgtgag ccgccccaac cccatgaccg ttttctggtc 240  
gaagacggcg caaagcatga c 261

<210> 1125  
<211> 301  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1125

gcacgcgtgg gcgacatgga cgcggacgtg atcaccattg agaactcgcg gtccgacgag 60  
aagctgctct ccgtgttccg anngggcgctc aaacncggcg cgggcatcgg ccccggtgct 120  
tacgacatcc actccccag gatcccgctc gctgaggaga tcgccgaccg catcgacaag 180  
atgctggcgg tgctggacac caacatcctc tgggtgaacc ccgactgcgg cctcaagacc 240  
cgcaagtaca cggaggtcaa gcccgccctg accaacaatgg tctccgccgc taagctcatc 300  
c 301

<210> 1126  
<211> 264  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1126

gggctgtcca ctcttcaga attaccaact gcnagatcca ggacaccacc cagatccaca 60  
cccacatgtg ctactccaac ttcaacgnca tcatccactc gatcatcgac atggacgcgg 120  
acgtgntcac cattgagaac tcgcgggtccg acgagaagct gctctccgtg ttccgcgagg 180  
gcgtcaagta cggcgcgggc atcggccccg gtgtctacga catccnctcc cccaggatcc 240  
cgtcgggtga ggagatcgcc gacc 264

<210> 1127  
<211> 277  
<212> DNA  
<213> Zea mays

<400> 1127

atcatccact cgatcatcga catggacgcg gacgtgatca ccattgagaa ctgcggtcc 60

gacgagaagc tgctctccgt gttccgcgag ggcgtcaagt acggcgcggg catcggtccc 120  
 ggtgtctacg acatccactc ccccaggatc ccgtcggctg aggagatcgc cgaccgcatc 180  
 gacaagatgc tggcgggtgt ggacaccaac atcctctggg tgaaccccga ctgcggcctc 240  
 aagacccgca agtacacgga ggtcaagccc gcctgac 277

<210> 1128  
 <211> 246  
 <212> DNA  
 <213> Zea mays

<400> 1128

gggctgtcca ctctttcagg atcaccaact gcggagtcca ggacaccacc cagatccaca 60  
 cccacatgtg ctactccaac ttcaacggac atcatccact ccatcatcga catggatgcc 120  
 gatgtgatca cgatcgagaa ctcccgatct gacgagaagc tactgtccgt cttccgtgag 180  
 ggtgtgaagt acggagctgg cattggccct ggtgtctacg acatccactc tcctaggatt 240  
 ccctcc 246

<210> 1129  
 <211> 270  
 <212> DNA  
 <213> Zea mays

<400> 1129

aaatcaacaa ggtcgttaag ctccaagaag agcttgacat tgatgtgctt gtgcatggcg 60  
 agcctgagag aaacgctatg gttgagtact tcggtgagca gctctccgtt tttgcgttca 120  
 ctgccaatgg ctgggtgcag tcttatgggt caagggtcgt caagcctccg atcatctacg 180  
 gtgacgtgag ccgccccaac cccatgaccg ttttctggtc gaagaggcgc agagcatgac 240  
 gtctcgccca atgaagggga tgctgactgg 270

<210> 1130  
 <211> 492  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1130



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 gcggtccgac gagaagctgc tctccgtggt ccgcgagggc gtcaagtacg gcgcgggcat 120  
 cggccccggt gtctacgaca tccactcccc caggatcccc tcggtgagg agatcgccga 180  
 ccgcacgac aagatgctgg cggtgctgga caccaacatc ctctgggtga accccgactg 240  
 cggcctcaag acccgcaagt acacggagggt caagcccgcc ctgaccaaca tggctctccgc 300  
 cgctaaagct catccgcacc cagctcgcca gcgccaagt agcacctttt ttttgccttt 360  
 ttcgtttccg aaganggcgt cntcgatgcc aatttgtttc caataaacan ggctgtnncc 420  
 cgccgttccg gttgtnancc gttcgggtgg aaggttanna attttcctga atttcccccc 480  
 aanggcggtt ng 492

<210> 1131  
 <211> 250  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 1131

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 gtgccatcaa ggaagaaatc agcaagggtg tcaagatcca agaggagctt gacattgatg 120  
 tgcttggtgca tggagagcca gagagaaatg acatgggtga gtacttcggt gncnaattat 180  
 ctggttttgc gttcactgcc aacggatggg tgcaatccta tggatcacgc tgtgtgaagc 240  
 caccattat 250

<210> 1132  
 <211> 262  
 <212> DNA  
 <213> Zea mays  
 <400> 1132

tcttggttg cttttgctgc ccagaagggt gttgagggtg atgctcttgc taaggcattg 60  
 gctggtcaaa aggatgaggc ttacttcgca gcaaagtctg ctgctcaggc ctcgagggaaa 120  
 tcctcacccc gtgtgaccaa tgaagaagtc cagaaggctg ctgctgctct caagggctct 180  
 gaccaccgcc gtgggaccaa cgttagtgt agattggatg cccagcagaa gaagcttaac 240  
 ctccccatcc ttcccaccac ta 262

<210> 1133  
 <211> 269  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1133

gctgctcagg cctcgaggaa atcctcaccc cgtgtgacca atgaagaagt ccagaaggct 60  
 gctgctgctc tcaagggtc tgaccaccgc cgtgcgacca acgttagtgc tagattggat 120  
 gccagcaga agaagcttaa cctccccatc cttcccacca ctacaatcgg ttcgttcna 180  
 caaacgcttg agctcaggag ggtccgccgt gagtacaagg caaaaaagat ctctgaggag 240  
 gaatacgtca ctgccatcaa ggaggaaat 269

<210> 1134  
 <211> 269  
 <212> DNA  
 <213> Zea mays

<400> 1134

cgccgctgcg ccgtctcctc cgctcccgtc gtccggaaag atggcgtccc acattgttgg 60  
 ataccctcgc atgggccccca agaggaggct caagtgttgc cttgagttt tctgggatgg 120  
 gaagagcacc gctgaggatc tggagaagggt tgctaccgac ctacaggcca gtatctggaa 180  
 gcagatggct gatgctggga tcaagtacat cccagcaac accttctcgt actatgacca 240  
 ggtccttgac accactgcca tgctcggcg 269

<210> 1135  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1135

gcgatcaaga aggaagtcga ggatcttgag gctggtggta ttcaggttat ccaaatcgac 60  
 gaggctgcac tgagagaagg gctgccgntc cgcaaggctg agcatgcatt ctacttggac 120  
 tgggctgtcc actccttcag aattaccaac tgcgagatcc aggacaccac ccagatccac 180  
 acccacatgt gctantccaa cttcaacgac atcatccact cgatcatcga catggacgng 240

gacgtgatna ccattgagaa ntcgggtccg anggggnagct gctctcngtg ttcnngggag 299

<210> 1136

<211> 276

<212> DNA

<213> Zea mays

<400> 1136

ctcacccccgt gtgaccaatg aagaagtcca gaaggctgct gctgctctca agggctctga 60

ccaccgccgt gggaccaacg ttagtgctag attggatgcc cagcagaaga agcttaacct 120

ccccatcctt cccaccacta caatcgggtc gttcccacaa accgttgagc tcaggagggt 180

ccgccgtgag tacaaggcaa aaaagatctc tgaggaggaa tacgtcactg ccatcaagga 240

ggaaatcaac aaggtcgtta agcttcaaga agagct 276

<210> 1137

<211> 257

<212> DNA

<213> Zea mays

<400> 1137

ccaactgcga gatccaggac accaccacaga tccacaccca catgtgctac tccaacttca 60

acgacatcat ccactcgatc atcgacatgg acgcggacgt gatcaccatc gagaactcgc 120

ggtccgacga gaagctgctc tccgtgttcc gtgagggtgt caagtacggc gcggggcatcg 180

gccccggtgt ctacgacatc cactccccca ggatcccgtc ggccgaggag atcgccgacc 240

gcatcgacaa gatgctg 257

<210> 1138

<211> 275

<212> DNA

<213> Zea mays

<400> 1138

gcttacttcg cagcaaattg tgctgctcag gcctcgagga aatcctcacc ccgtgtgacc 60

aatgaagaag tccagaaggc tgctgctgct ctcaagggtc ctgaccaccg ccgtgggacc 120

aacgttagtg ctagattgga tgcccagcag aagaagctta acctcccat ccttcccacc 180

actacaatcg gttcgttccc acaaaccgtt gagctcagga ggggtccgccg tgagtacaag 240

gcaaaaaaaga tctctgagga ggaatacgtc actgc 275

<210> 1139  
 <211> 295  
 <212> DNA  
 <213> Zea mays

<400> 1139

agatggcaca gagcatgacc cctcgtccca tgaagggaat gttgactggt ccggtcacia 60  
 tcctgaactg gtcattcgtc aggaacgacc agcctagggt tgagacatgc taccaaatag 120  
 ctcttgcaat caaaaaggag gttgaggatc ttgaggctgc tggatttcag gtgatccaga 180  
 tcgatgaggc agctctaagg gagggctctgc cactacgcaa gtcagagcat gcattctacc 240  
 tggactgggc tgtccactct ttcaggatca ccaactgcgg agtccaggac accac 295

<210> 1140  
 <211> 316  
 <212> DNA  
 <213> Zea mays

<400> 1140

gcattctctg ctgcatacgc agaacttgaa tctgtacttt ctggattgaa tgtgcttggt 60  
 gagacttact ttgctgatgt tcctgctgag tcctacaaga ccctaacatc cctgagcagt 120  
 gtgactgctt atggttttga tcttgtccgt ggaacccaaa ctcttgggct tgtcacgagt 180  
 gctggtttcc ctgctggaaa gtacctcttt gctgggtgttg tggatggacg caacatctgg 240  
 gctgatgatc ttgctacatc tctcagcact ctccagtctc ttgaggctgt tgttggaag 300  
 gacaagcttg tcgtat 316

<210> 1141  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1141

ccactcttgt cctcgacctt gattctgaca aattggctgc attctctgct gcatacgcag 60  
 aacttgaatc tgtactttct ggattgaatg tgcttggtga gacttacttt gctgatgttc 120

ctgctgagtc ctacaagacc ctaacatctc tgagcagtgt gactgcctat ggttttgatc 180  
 ttgtccgtgg aacccaaaact cttgggcttg tcacgagtgc tggtttccct gctggaaagt 240  
 acctctttgc tgggtgttgat gatggacgca acatctgggc tgatgatctt gctacatctc 300  
 taacactctt cagtctcttg aggctgttgt tgggaangac aagcttgtcg atcaacttnc 360  
 tgctcgctca tgcacaccgn tgtggatctt gngaaccaga ctnagcttga cagcagatna 420  
 atctggcttg ctttgctgcc anaag 445

<210> 1142

<211> 301

<212> DNA

<213> Zea mays

<400> 1142

gccaagacgg ttgttgaggt tgatgctctt gctaaggcat tggctggtca aaaggatgag 60  
 gcttacttcg cagcaaattgc tgcagctcag gcctcgagga aatcctcacc ccgtgtgacc 120  
 aatgaagaag tccagaaggc tgctgctgct ctcaagggt ctgaccaccg ccgtgcgacc 180  
 aacgttagtg ctagattgga tgcccagcag aagaagctta acctcccat cttcccacca 240  
 tacaatcggg tcgttccac aaaccgttga gtcaggagg gtccgccgtg agtacaaggc 300  
 a 301

<210> 1143

<211> 277

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1143

gtggtattca ggttatccaa atcgacgagg ctgcactgag agaagggctg ccgctccgca 60  
 aggctgagca tgcattctac ttggactggg ctgtccactc cttcagaatc accaactgcg 120  
 agatccagga caccaccng atccacaccc acatgtgcta ctccaacttc aacgacatca 180  
 tccactcgat catcgacatg gacgcggacg tgatcaccat cgagaatcgc ggtccgacga 240  
 gaagctgctc tccgtgttcc gtgaggtgtc aagtacg 277

<210> 1144

<211> 281

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1144  
  
 cgccgctgcg ccgctctctc cgctcccgtc gtccggaaag atggcgctcc acattgttgg 60  
 ataccctcgc atgggccccca agagggagct caagtttgca cttgagtctt tctgggatgg 120  
 gaagagcacc gctgaggatc tggagaangt tgctaccgac ctcagggcca gtatctggaa 180  
 gcagatggct gatgctggga tcaagtacat ccccagcaac actttctcgt actatgacca 240  
 ggtcctttga caccactgcc atgctcggcg ctgtccccga a 281

<210> 1145  
 <211> 247  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1145  
  
 gccgtgctac cactgttgct gctagattgg atgctcagca gaaaaagctc aaccttcctg 60  
 tccttccac aaccacaatt ggttcattcc ctcagactgt ggaactcagg agggtcogtc 120  
 gtgagtacaa ggcaaagaag atctccgagg aggaatacat cagtgccatc aaggaagaaa 180  
 tcagcaaggt tgtcaagatc caagaggagc ttgacattga tgtgcttggt catggagagc 240  
 cagagag 247

<210> 1146  
 <211> 268  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1146  
  
 tgctgactgg ccagtcaca atcctcaact ggtccttcgt ccggaatgac cagccgaggt 60  
 ttgagacttg ctaccagatc gctcttgcca tcaagaagga agtcgaggat cttgaggctg 120  
 gtggtattca ggttatccaa atcgacgagg ctgcactgag agaagggctg ccgctccgca 180  
 aggctgagca tgcattctac ttggactggg ctgtccactc cttcagaatt accaactgcg 240  
 agatccagga caccacccag atccacac 268

<210> 1147

<211> 290  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1147

cggnacggtg gcnacctatc atcgccgctg cgccgtctcc tccgctcccg tcgtccggaa 60  
 agatggcgtc ccacattggt ggataccctc gnntgggccc caagagggag ctcaagtttg 120  
 cacttgagtc tttctgggat ggaagagca ccgctgagga tctggagaag gttgctaccg 180  
 acctcagggc cagtatctgg aagcagatgg ctgatgctgg gatcaagtac atccccagca 240  
 acactttctc gtactatgac caggctcctg acaccactgc catgctcggc 290

<210> 1148  
 <211> 269  
 <212> DNA  
 <213> Zea mays

<400> 1148  
 caaggagatc atcgcccagg gtgacaaacg aggaggcca gaaggctgca gctgctttga 60  
 ggggatctga ccaccgccgt tctaccactg tttctgctag attggatgct cagcagaaaa 120  
 agctcaacct tcctgtcctt cccacaacca caattgggtc attccctcag actgtggaac 180  
 tcaggagggg tcgccgtgaa tacaaggcaa agaagatcac cgaggacgaa tacatcagtg 240  
 ccatcaagga agaaatcagc aaggttgtc 269

<210> 1149  
 <211> 280  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1149

caagaagagc ttgacatnna tgtntctgtg catngcgagc ctgagagaaa cgatatgggt 60  
 gagnacntcg gtgagcagct cnccgggttt gcgttcacng ccaatggctg ggtgcagtct 120  
 tatgggtcaa ggtgcgtcaa gcctccgata atctacggtg acgtgagcng ccccaacccc 180  
 atgaccgttt tcnggtcgaa gacngcgag agcatgacgt ctcgccaat gaaggggatg 240  
 ctgangggcc agtcacaatc ctcaacnggt ccttcgtccg 280

<210> 1150

<211> 323

<212> DNA

<213> Zea mays

<400> 1150

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gagaactcgc ggtccgacga gaagctgctc tccgtgttcc gtgaggggtgt caagtacggc 60
gcgggcatcg gccccggtgt ctacgacatc cactcccccga ggatcccgtc ggccgaggag 120
atcgccgacc gcatcgacaa gatgctggcc gtgctggaca ccaacatcct ctgggtgaac 180
cccgaactgcy gcctcaagac ccgcaagtac acggagggtca agcccgccct gaccaacatg 240
gtctccgctg ctaagtcatt cgcacccagc tcgccagcgc caagtgaagca ctttttttgc 300
cttttttcgtt tccgaggagg ggt 323
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<210> 1151

<211> 325

<212> DNA

<213> Zea mays

<400> 1151

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caccacccac atctcagttc accccggcgt cgtcctcttc ccccggcgct actctcccgc 60
tccacgttcc aaaggaaaga tggcgtccca tattgttgga taccctcgca tgggccccaa 120
gagagagctc aagtttgcct tggagtcctt ctgggatggg aagagcagcg ccgatgattt 180
agagaaaagt gcctctgacc tcaggctctag catctggaag caaatgtcag aagctgggat 240
caagtacatt ccagcaaca cttctcgtc ctatgaccag gtccttgata ccacggccat 300
gcttggtgtg tcccagagcg ctact 325
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<210> 1152

<211> 272

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1152

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ggacgtggac ttcgcatggg ccccaagagg gagctcaagt ttgcacttga gtcantctgg 60
gatgggaaga gcaccgctga ggatctggag aaggttgcta ccgacctcag ggccagtatc 120
tggangcaga tggctgatgc tgggatcaag tacatcccca gcaacacctt ctcgactat 180
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gaccagggtcc ttgacaccac tgccatgctc ggcgctgtcc ccgaacgcta ctcattggact 240  
ggaggagaga ttgggtttga cacctacttc tc 272

<210> 1153  
<211> 232  
<212> DNA  
<213> Zea mays

<400> 1153

gggctgtcca ctcttcaga atcaccaact gcgagatcca ggacaccacc cagatccaca 60  
cccacatgtg ctactccaac ttcaacgaca tcatccactc gatcatcgac atggacgcgg 120  
acgtgatcac catcgagaac tcgcgggtccg acgagaagct gctctccgtg ttccgtgagg 180  
gtgtcaagta cggcgcgggc atcggccccg gtgtctacga catccactcc cc 232

<210> 1154  
<211> 285  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1154

atcgacgagg ctgcactgag agaagggctg ccgctccgca aggctgagca tgcattctac 60  
ttggactggg ctgtccactc cttcagaatc accaactgcg aaatccagga caccaccag 120  
atccacaccc acatgtgcta ctccacttca acgacatcat ccaactcgatt nccgacatgg 180  
acgcggacgt gatcaccatc gagaaactcg cgtccgacga gaagctgctc tccgtgttcc 240  
gtgaggtgtc aagtacggcg cgggcatcgg ccccggtgtc tacga 285

<210> 1155  
<211> 327  
<212> DNA  
<213> Zea mays

<400> 1155

cccggctctga cgagaagcta ctgtccgtct tccgtgaggg tgtgaagtac ggagctggca 60  
ttggccctgg tgtctacgac atccacttct cctaggattc cctccaccga ggagatcgca 120  
gaccgcgtcg agaagatgct cgccgtgctc gacaccaaca tcctctgggt gaaccctgac 180

tgtggtctca agacacgcaa gtacacggag gtcaagcccc ccctgaccaa catggtctcg 240  
gccaccaagc tcatccgcac ccagcttgcc agcgcgaaat gagtcgtttg atagtccatg 300  
gtctgatagc gcggaatgag ccagttt 327

<210> 1156

<211> 284

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1156

cgtgatcacc attgaganct cgcggtccga cgagaagctg ctctccgtgt tccgcgaggn 60  
gcgtaagta cggcgcgggc atcggccccg gtgtctacna catccactcc cccaggatcc 120  
cgtcggctga ggagatcgcc gaccgcatcg acaagatgct ggcggtgctg gacaccaaca 180  
tcctctgggt gaacccccgac tgcggcctca agaccgcaa gtacacggag gtcaagcccc 240  
ccctgaccaa catggtctcc gccgctaagc tcatccgcac ccag 284

<210> 1157

<211> 293

<212> DNA

<213> Zea mays

<400> 1157

gtcttgggct tgcttttgct gcccagaagg ttgttgaggt tgatgctctt gctaaggcat 60  
tgggctggtc aaaaggatga ggcttacttc gcagcaaatg ctgctgctca ggcctcgagg 120  
aatcctcac cccgtgtgac caatgaagaa gtccagaagg ctgctgctgc tctcaagggc 180  
tctgaccacc gccgtgggac caacgttagt gctagattgg atgcccagca gaagaagctt 240  
aacctcccca tccttccac cactacaatc ggttcgttcc cacaaaccgt tga 293

<210> 1158

<211> 309

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1158

cgccgctgcg ccgtctctc cgctcccgtc gtccggaaaag atggcgnccc acattgttgg 60

ataccctcgc atgggccccca agagggagct caagtttgca cttgagtctt tctgggatgg 120  
gaagggcacc gctgaggatc tggagaaggt tgctaccgac ctcagggcca gtatctggaa 180  
gcagatggct gatgctggga tcaagtacat ccccagaanc actttctcgt actatgacca 240  
agtcttgaca ccatgccatg ctcggcgctg tccccgaacg ttactcatgg actggaggag 300  
agatggatt 309

<210> 1159  
<211> 462  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1159

cgtgcggtgn tccgcgaggg cgtcaagtac ggcgcnngca tcggccccgg tgtctacgac 60  
ntccactccc ccaggatccc gtcggctgag gagatcgccg accgcatcga caagatgctg 120  
gcggtgctgg acaccaacat cctctgggtg aaccccgact gcggcctcaa gacccgcaag 180  
tacacggagg tcaagcccg cctgaccaac atggtctccg ccgctaagct catccgcacc 240  
cagctcgcca gcgccaagtg agcacctttt ttttgccctt ttcgtttccg aggagggccg 300  
tcgtcgatgc caatttggtt ccaataaaca gggcttgctg ccgccgttct gttgtactcc 360  
gtctgtgggt aggttaagta gttttcttga tctcgcccc acgcggtacc tgntttacta 420  
ctctctgggt ggtgggttct gaagcaaagt tnnccgttta ct 462

<210> 1160  
<211> 231  
<212> DNA  
<213> Zea mays

<400> 1160

ggctgcactg agagaagggc tgccgctccg caaggctgag catgcattct acttggactg 60  
ggctgtccac tccttcagaa tcaccaactg cgagatccag gacaccaccc agatccacac 120  
ccacatgtgc tactccaact tcaacgacat catccactcg atcatcgaca tggacgcgga 180  
cgtgatcacc atcgagaact cgcggtccga cgagaagctg ctctccgtgt t 231

<210> 1161  
<211> 275

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1161  
  
 gttgactggg cccgtcacaa tcctganctg gtcattcgtc aggaacgacc agcctagggt 60  
 tgagacatgc taccaaatac ctcttgcaat caaaaaggag gttgaggatc ttgaggcnnc 120  
 nggtattcag gtgatccaga tcgatgaggc agctctaagg gaggggtctgc cactacgcaa 180  
 gtcagagcat gcattctacc tggactgggc tgtccactct ttcaggatca ccaactgcgg 240  
 agtccaggac accacccaga tccacaccca catgt 275

<210> 1162  
 <211> 290  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1162  
  
 gagagattgg atttgacacc tacttctcca tggccagggg caacgccact gttcctgcta 60  
 tggagatgac caagtgggtt gacaccaact accactttan tgtccctgga nttgggcccc 120  
 aacaccaagt tctcctatgc ttctcacaag gctgttaacg aatataagga ggctaaggcg 180  
 ctccgtgttg ataccgtgcc agtacttggt ggaccagtct cgtacctgtt gctctcaaag 240  
 cctgccaaag gtgtggagaa gggattcnct cttctttccc ttcttagcag 290

<210> 1163  
 <211> 342  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1163  
  
 cngtgacgtg agccgcccc accccatgac cgttttctgg tcgaagacgg cgcagagcat 60  
 gacgtctcng ccaatgaaag gngatgctga ctggcccagt ncacaatcct caactgggtcc 120  
 ttcgtccgga atgaccagcc gaggtttgag acttgctacc agatcgctct tgcgatcaag 180  
 aaggaagtcg aggatctcga ggctgggtgt attcagggtta tccaaatcga cgaggctgca 240  
 ctgagagaag ggctgccgct ccgcaaggct gagcatgcat ctacttggac tgggctgtcc 300

atccttcaga atcaccaatg cgnagaccag gacaccaccc ag 342

<210> 1164  
<211> 264  
<212> DNA  
<213> Zea mays

<400> 1164

aaccccatga ccgttttctg gtcgaagagg cacagagcat gacgtctcgc ccaatgaagg 60  
ggatgctgac tggcccagtc acaatcctca actggtcctt cgtccggaat gaccagccga 120  
ggtttgagac ttgctaccag atcgctcttg cgatcaagaa ggaagtcgag gatcttgagg 180  
ctggtggtat tcaggttatc caaatcgacg aggtctgact gagagaaggg ctgccgctcc 240  
gcaaggctga gcatgcattc tact 264

<210> 1165  
<211> 298  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1165

gtccagaagg ctgcagctgc tttgagggga tctgaccacc gccgttctac cactgtttct 60  
gctagattgg atgctcagca gacaaaagctc aaccttnctg tccttccac aaccacaatt 120  
gnttcattcc ctgagactgt ggaactcagg agggttcgcc gtgaatacaa ggcaaagaag 180  
atcaccgagg acgaaaaanat cagtgccatc aaggaagaaa ttcagcaagg ttgtcaagat 240  
ccaagaggag ntgacattga tgtgcttggt catggagagc cagagagaat gacatggt 298

<210> 1166  
<211> 226  
<212> DNA  
<213> Zea mays

<400> 1166

gcttgacatt gatgtgcttg tgcatggaga gccagagaga aatgacatgg ttgagtactt 60  
cggtgagcaa ttatctgggt ttgcgttcac tgccaacgga tgggtgcaat cctatggatc 120  
acgctgtgtg aagccaccca ttatctacgg tgatgtcagc cggccgaacc ccatgactgt 180  
tttctggtcc aagatggcac agagcatgac ccctcgcccc atgaag 226

<210> 1167  
 <211> 254  
 <212> DNA  
 <213> Zea mays

<400> 1167

gtccggaatg accagccgag gtttgagact tgctaccaga tcgctcttgc gatcaagaag 60  
 gaagtgcgagg atcttgaggc tgggtggtatt caggttatcc aaatcgacga ggctgcactg 120  
 agagaagggc tgccgctccg caaggctgag catgcattct acttggactg ggctgtccac 180  
 tccttcagaa ttaccaactg cgagatccag gacaccaccc agatccacac ccacatgtgc 240  
 tactccaact tcaa 254

<210> 1168  
 <211> 251  
 <212> DNA  
 <213> Zea mays

<400> 1168

ctccggtttt gcgttcaactg ccaatggctg ggtgcagtct tatgggtcaa ggtgcgtcaa 60  
 gcctccgatc atctacggtg acgtgagccg cccaacccc atgaccgttt tctggtcgaa 120  
 gaggcgcaga gcatgacgtc tcgccaatg aaggggatgc tgactggccc agtcacaatc 180  
 ctcaactggg ccttcgtccg gaatgaccag ccgaggtttg agacttgcta ccagatcgct 240  
 cttgcgatca a 251

<210> 1169  
 <211> 279  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1169

atcgccgctg cgccgtctcc tccgctcccg tcgtnccgaa agatggcgctc ccacattgtt 60  
 ggataccctc gcatgggccc caagaggag ctcaagtttg cacttgagtc tttctgggat 120  
 gggaagagca ccgctgagga tctggagaag gttgcnacng aacttnaggg ccagtatctg 180  
 gaagcagang gctgatgctg ggatcaagta catccccagc aacactttct cgtactatga 240

ccaggtcctt gacacnactg ccatgctggg gctgggtccc 279

<210> 1170  
<211> 268  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1170

atgggtcaag gtgcgtcaag cctccgatca tctacggtga cgtgagcngc cccaacccca 60  
tgaccgtttt ctggtcgaag aggcgacagan catgacgtct cgcccaatga aggggatgct 120  
gactggccca gtcacaatcc tcaactgggc cttcgtccgg aatgaccagc cgagggttga 180  
gacttgctac cagatcgctc ttgcgatcaa gaaggaagtc gaggatctcg aggctggtgg 240  
tattcaggtt atccaaatcg acgaggct 268

<210> 1171  
<211> 90  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1171

cgtcggctga ggagatcgcc gaccgcatcn acaagatgct ggcggtgctg gacaccaaca 60  
tcntctgggt gaaccccgac tgcngcctca 90

<210> 1172  
<211> 254  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1172

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gccccaaagag ggagctcaag ttgacacttg agtctttctg ggatgggaag agcaccgctg 120  
aggatctgga gaagggtgct accgacctca gggccagtat ctggaagcag atggctgatg 180  
ctgggatcaa gtacatcccc agcaacacct tntcgtacta tgaccaggtc cttgacacca 240  
tgccatgctc ggnt 254

<210> 1173  
 <211> 251  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1173  
  
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 ccactgtttc tgctagattg gatgctcagc agaaaaagct caaccttcct gtccttccca 120  
 caaccacaat tggttcattc cctcagactg tggaactcag gagggttcgc cgtgaatata 180  
 aggcaaagaa gatcaccgag gacgaatata tcagtgnat caaggaagaa atcagcaagg 240  
 ttgtcaagat c 251

<210> 1174  
 <211> 246  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1174  
  
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 aggggtgtgaa gtacggagct ggcatgggcc ctgggtgtcta cgacatccac tctcctagga 120  
 ttccctccac cgaggagatc gcagaccgcg tcgagaagat gctcgccgtg ctcgacacca 180  
 acatcctctg ggtgaaccct gactgtggtc tcaagacacg caagtacacg gaggtcaagc 240  
 ccgccc 246

<210> 1175  
 <211> 258  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1175  
  
 gaacgatcag cctaggtttg agacatgcta ccaaatagct cttgcaataa aaaaggaggt 60  
 tgaggatctt gaggtgtctg gtattcaggt gatccagatt gatgaggcag ctctaaggga 120  
 gggctctgcca ctgcgcaagt cagagcatgc attctacctg gactgggctg tccactcttt 180  
 cagaatcacc aactgcggag tccaggacac caccagatc cacaccata tgtgctactc 240  
 caacttcaac gacatcat 258



<210> 1176

<211> 276

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1176

cggacntggn nagngnaaat cctcaccocg tgtgaccaat gaagaagtcc agaaggctgc 60  
tgctgctctc aagggtctn aanaccgocg nngnaccaa gtagtgcta gattggatgc 120  
ccagcagaag aagcttaacc tccccatcct tcccaccact acaatcgggtt cgttcccaca 180  
aaccgttgag ctgaggagg tccgcgtga gtacaaggca aaaaagatct ctgaggagga 240  
atacgtcact gccatcaagg aggaaatcaa caaggt 276

<210> 1177

<211> 297

<212> DNA

<213> Zea mays

<400> 1177

acgagtgtg gtttccctgc tggaaagtac ctctttgtg gtgttggtga tggacgcaac 60  
atctgggctg atgatcttgc tacatctctc agcactctcc agtctcttga ggctgttggt 120  
gggaaggaca agcttgctgt atcaacttcc tgctcgtca tgcacaccgc tgtggatctt 180  
gtgaacgaga ctaagcttga cagcgagatt aagtcttggc ttgctttttg ccagaagggt 240  
tgttgagggt gatgctcttg ctaaggcatt ggctgggcca aaagatgagc ttacttc 297

<210> 1178

<211> 283

<212> DNA

<213> Zea mays

<400> 1178

ggaggctaag gcgctcgggtg ttgataccgt gccagtactt gttggaccag tctcgtaact 60  
gttgctctca aagcctgcc aagggtgtga gaagggatc cctcttcttt cccttcttag 120  
cagcatcctc ccagtctaca aggaggtcat tgctgagttg aaggcagctg gggcttcatg 180  
gattcagttt gatgagccca ctcttgctct cgaccttgat tctgacaaat tggctgcatt 240  
ctctgctgca tacgcagaac ttgaatctgt actttctgga ttg 283

<210> 1179

<211> 84

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1179

ancttctngt actatgacca ggtccttgan accagtncca tgctcggcgc tgtccccgaa 60

cgctaccatg gactggacga gaga 84

<210> 1180

<211> 315

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1180

gtttgatgag cccactcttg tcctcgacct tgattctgac aaattggctg cattctctgc 60

tgcatacgca gaacttgaat ctgtactttc tggattgaat gtgcttggtg agacttactt 120

tgctgatgtt cctgctgagt cctacaagnc cctaaccatcc ctgagcagtg tgactgctta 180

tggttttgat cttgtccgtg gaacccaaac tcttgggctt gtcacgagtg ctggtttccc 240

tgctggaaaag tacctctttg ctgggtgttg ggatggacgc aacatctggg ctgatgatct 300

tgctacatct ctcag 315

<210> 1181

<211> 267

<212> DNA

<213> Zea mays

<400> 1181

agccgccccca accccatgac cgttttctgg tcgaagaggc gcagagcatg acgtctcgcc 60

caatgaaggg gatgctgact ggcccagtca caatcctcaa ctggtccttc gtccggaatg 120

accagccgag gtttgagact tgctaccaga tcgctcttgc gatcaagaag gaagtcgagg 180

atctcgaggc tgggtggtatt caggttatcc aaatcgacga ggctgcactg agagaagggc 240

tgccgtccgc aaggctgagc atgcatt 267

<210> 1182

<211> 249

<212> DNA

<213> Zea mays

<400> 1182

tgtgaagtac ggagctggca ttggccctgg tgtctacgac atccactctc ctaggattcc 60  
ctccacagag gagatcgag accgcgtcga gaagatgctc gccgtgctcg acaccaacat 120  
cctctgggtg aaccctgact gtggtctcaa gacacgcaag tacacggagg tcaagcccgc 180  
cctgaccaac atggtctcgg ccaccaagct catccgcacc cagcttgcca gcgcgaaatg 240  
aggtcgttt 249

<210> 1183

<211> 259

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1183

ctcacctatc atcgccgctg cgccgtctcc tccgtcccg tcgtccggaa agatggcgctc 60  
ccacattgtt ggataccctc gcatgggccc caagagggng ctcaagtttg cacttgagtc 120  
tttctgggat gggaagagca ccgctgagga tctggagaag gttgctaccg acctcagggc 180  
cagtatctgg aagcagatgg ctgatgctgg gatcaagtac atccccagca aactttctc 240  
gtactatgac caggtcctt 259

<210> 1184

<211> 296

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1184

ctaccaaata gctcttgcaa tcaaaaagga ggttgaggat cttgangctg ctggtattca 60  
ggtgatccag atcgatgagg cagctctaag ggagggctctg ccactacgca agtcagagca 120  
tgcatctac ctggactggg ctgtccactc tttcaggatc accaactgcy gagtccagga 180  
caccaccag atccacaccc acatgtgcta ctccaacttc aacgacatca tccactccat 240  
ccatcgacat gggatgccga tgtgatcacg atcgagaact cccggtctga ngagaa 296

<210> 1185  
 <211> 218  
 <212> DNA  
 <213> Zea mays

<400> 1185

aggctgcact gagagaaggc ctgccgctcc gcaaggctga gcatgcattc tacttggact 60  
 gggctgtcca ctctttcaga atcaccaact gcgagatcca ggacaccacc cagatccaca 120  
 cccacatgtg ctactccaac ttcaacgaca tcatccactc gatcatcgac atggacgcgg 180  
 acgtgatcac catcgagaac tcgcggtccg acgagaag 218

<210> 1186  
 <211> 261  
 <212> DNA  
 <213> Zea mays

<400> 1186

ctctcacct atcatcgccg ctgcgcgctc tcctccgctc ccgtcgtccg gaaagatggc 60  
 gtcccacatt gttggatacc ctgcgatggg ccccaagagg gagctcaagt ttgcacttga 120  
 gtctttctgg gatgggaaga gcaccgctga ggatctggag aagggttgcta ccgacctcag 180  
 ggccagtatc tggaagcaga tggctgatgc tgggatcaag tacatcccca gcaacacttt 240  
 ctcgtactat gaccaggtcc t 261

<210> 1187  
 <211> 282  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1187

gcgtcccaca ttgttggata ccctcgcatg ggccccaaaga gggagctcaa gtttgcactt 60  
 gagtctttct gggatgggaa gagcaccgct gaggatctgg agaagggttgc taccgacctc 120  
 agggccagta tctggaagca gatggctgat gctgggatca agtacatccc cagcaacact 180  
 ttctcgtact atgaccaggt ccttgacaac atgcatgct cggcgtgtcc ccgaacgtta 240  
 ctcatggatn gaggagagat ggattgacaa ctattctcca tg 282

<210> 1188  
 <211> 298  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1188

gtgcgtcaag cctccgatca tctacggtga cgtgagccgc cccaacccca tgaccntttt 60  
 ctgggtcgaag aggcacagag catgacgtct cgcccaatga aggggatgct gactggccca 120  
 gtcacaatcc tcaatggtcc ttcgtccgga atgaccagcc gaggtttgag acttgctacc 180  
 agatcgctct tgcgatcaag aaggaagtcg aggatcttga ggctgggtggg attcagggtta 240  
 tccaaatcga cgaggctgcc actgagagaa gggctgccgt ccgcaaggct gagcatca 298

<210> 1189  
 <211> 228  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1189

cccagatcca caccacatg tgctactcca acttcaacga catcatccac tncgatcatc 60  
 gacatggacg cggacgtgat caccatcgag aactcgcggt ccgacgagaa gctgctctcc 120  
 gtgttccgtg aggggtgtcaa gtacggcgcg ggcacggcc ccggtgtcta cgacatccac 180  
 tccccagga tcccgtcggc cgaggagatc gccgaccgca tcgacaag 228

<210> 1190  
 <211> 280  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1190

cacaattggt tcattccctc agactgtgga actcaggagg gttccgccgt gaatacaagg 60  
 caaagaagat caccgaggac gaatacatca gtgccatcaa ggaagaaatc agcaaggncg 120  
 tcaagatcca agaggagctt gacattgatg tgcttggtgca tggagagcca gagagaaatg 180  
 acatggttga gtacttcggt gagcaattat ctggtttgcg ttcactgcca acggatgggt 240  
 gcaatcctat ggatcacgct tgtgtgaagc caccattat 280

<210> 1191  
 <211> 290  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1191

ttgggaagga caagcttgtc gtatcaactt cctgctcgct catgcacacc gctgtggatc 60  
 ttgtgaacga gactaagctt gacagcgaga ttaagtctng gcttgctttt gctgcccaga 120  
 aggttggtga ggttgatgct cttgctaagg cattggctgg tcaaaaggat gaggcttact 180  
 tcgcagcaaa tgctgctgct caggcctcga ggaaatcctc accccgtgtg accatgaaga 240  
 agtccagaag gctgctgctg ctctcaaggg tctgaccacc gccgtgggac 290

<210> 1192  
 <211> 243  
 <212> DNA  
 <213> Zea mays

<400> 1192

gaccagccga ggtttgagac ttgctaccag atcgctcttg cgatcaagaa ggaagtcgag 60  
 gatcttgagg ctggtgggtat tcaggttatc caaatcgacg aggctgcact gagagaaggg 120  
 ctgccgctcc gcaaggctga gcatgcattc tacttggact gggctgtcca ctccctcaga 180  
 attaccaact gcgagatcca ggacaccacc cagatccaca cccacatgtg ctactccaat 240  
 tca 243

<210> 1193  
 <211> 223  
 <212> DNA  
 <213> Zea mays

<400> 1193

atggacgcag atgtgatcac catcgagaac tcccggtcg acgagaagct actgtccgtg 60  
 ttccgcgagg gtgtgaagta cggagctgga atcgggtccag gtgtctacga catccactcg 120  
 cccaggatcc cctccaccga ggagatcgcg gaccgcgtca acaagatgct cgccgtgctc 180  
 gacaccaaca tcctctgggt gaaccctgac tgcggtctca aga 223

<210> 1194  
 <211> 246  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1194

gctgactggc ccagtcacaa tcctcaactg gtccttcgtc cggaatgacc agccgaggtt 60  
 tgagacttgc taccagatcg ctcttgcgat caagaaggaa gtcgaggatc tcgaggctgg 120  
 tggatttcag gttatccaaa tcgacgaggc tgcactgaga gaagggtctgc cgctccgcaa 180  
 ggctgagcat gcattctact tggactgggc tgtccactcc ttnagantca ccacngggag 240  
 atccng 246

<210> 1195  
 <211> 232  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1195

tgggtggtatt cangatatcc aaatcgacga ngctgcactg agagaagggc tgccgctccg 60  
 caaggctgan catgcattct acttggaactn ggctgtccac tccttcagaa ttaccaactg 120  
 cgagatccag gacaccaccc agatccacac ccacatgtgc tactccaact tcaacgacat 180  
 catccactcg atcatcgaca tggacgcgga cgtgatcacc attgagaact cg 232

<210> 1196  
 <211> 248  
 <212> DNA  
 <213> Zea mays

<400> 1196

gaaatcaaca aggtcgttaa gctccaagaa gagcttgaca ttgatgtgct tgtgcatggc 60  
 gagcctgaga gaaacgatat gggtgagtac ttcggtgagc agctctccgg ttttgcggtc 120  
 actgccaatg gctgggtgca gtcttatggg tcaagggtgcg tcaagcctcc gatcatctac 180  
 ggtgacgtga gccgccccaa ccccatgacc gttttctggt cgaagaggcg cagagcatga 240  
 cgtctcgc 248

<210> 1197  
 <211> 300  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1197  
  
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 cttgaggctg ttgttgggaa ggacaagctt gtcgtatcaa cttcctgctc gtcctatgcac 120  
 accgctgtgg atcttgtgaa cgagactaag cttgacagcg agattaagtc ttggcttgct 180  
 tttgctgccc agaaggttgt tgaggttgat gctcttgcta aggcatggc tgggtcaaaag 240  
 gatgaggcta cttcgcagca aatgctgctg ctcaggcctc gaggaaatcc tcaccccgtg 300

<210> 1198  
 <211> 233  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1198  
  
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 tgcattctac ctggactggg ctgtccactc tttcaggatc accaactgcg gagtccagga 120  
 caccaccag atccacaccc acatgtgcta ctccaacttc aacgacatca tccaactccat 180  
 catcgacatg gatgccgatg tgatcacgat cgagaatccc ggtctgacga gaa 233

<210> 1199  
 <211> 256  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1199  
  
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 gtcgaggatt cttggaggct ggtggtattc aggttatcca aatcgacgag gctgcactga 120  
 gagaagggct gccgctccgc aaggctgagc atgcattcta cttggactgg gctgtccact 180  
 ccttcagaat taccaactgc gagatccagg acaccaccca gatccacacc cacatgtgct 240  
 actccaactt caacga 256

<210> 1200



<211> 297  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1200  
  
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 aggattccct ccaccgagga gatcgcagac cgcgtcgaga agatgctcgc cgtgctcgac 120  
 accaacatcc tctgggtgaa ccctgactgt ggtctcaaga cacgcaagta cacggaggtc 180  
 aagcccggcc tgaccaacat ggtctcggcc accaagctca tccgcaccca gcttgccagc 240  
 gcgaaatgag tcgtttgata gctccatggg ctgatagcgc ggaatgagcc agtttgt 297

<210> 1201  
 <211> 260  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1201  
  
 cacctatcat cgccgctgcg ccgtctcctc cgctcccgtc gtccggaaaag atggcgctccc 60  
 acattgttgg ataccctcgc atggggcccca agagggagct caagtttgca cttgagtctt 120  
 tctgggatgg gaagagcacc gctgaggatc tggagaaggt tgctaccgac ctcagggccca 180  
 gtatctggaa gcagatggct gatgctggga tcaagtacat cccagcaac ancttctcgt 240  
 actatgacca ggtcttgaca 260

<210> 1202  
 <211> 261  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1202  
  
 gttccgcgag ggcgtcaagt acggcgcggg catcggcccc ggtgtctacg acatccactc 60  
 cccaggatc ccgtcggtg aggagatcgc cgaccgcac gacaagatgc tggcggtgct 120  
 ggacaccaac atcctctggg tgaacccga ctgcggcctc aagacncca agaccacgg 180  
 aggtcaagcc cncctgaac aacatggtct ccgcgctaa gctcatncc acccagntcg 240  
 ccagcgccaa gtgagcactt t 261

<210> 1203

<211> 246

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1203

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cccttgccaa ggctttggca ggccaaaagg atgaggtcta ctttgcagcc aatgctgctg 60
ctnnggcctc aaggagatca tcgcccaggg tgacaaacga ggaggtccag aaggctgcag 120
ctgctttgag gggatctgac caccgccgtt ctaccactgt ttctgctaga ttggatgctc 180
agcagaaaaa gctcaacctt cctgtccttc ccacaaccac aattggttca ttccctcaga 240
ctgtgg                                           246
```

<210> 1204

<211> 266

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1204

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gggacntggt ccagtgggtga ncgcggacgt gatcaccatt ganaactcgc ggtccgaagn 60
gaagctgctc tccgtgttcc gcnagggcgt caagtacggc gcgggcatcg gccccgggtgt 120
ctacgacatc cactccccca ggatcccgtc ggctgaggat atcgccgacc gcatcgacaa 180
gatgctggcg gtgctggaca ccaacatcct ctgggtgaac cccgactgcg gcctcaagac 240
ccncaagtac acggaggtcn agcccc                                           266
```

<210> 1205

<211> 302

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1205

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ccccaacccc atgaccgttt tcnggtcgaa gacggcacag agcatgacgt ctcgcccaat 60
gaaggggatg ctgactggcc cagtcacaat cctcaactgg tccttcgtcc ggaatgacca 120
gccgangttt gagacttgct accagatcgc tcttgcgatc aagaaggaag tcgaggatct 180
tgagtntggt ggtattcagg ttatccaaat cgacgaggct gcactgagan aagggcnnnn 240
```

cgctccgcaa ggctgagcat gcattctaata tgganggntc atccttcaga ttacactgng 300  
ag 302

<210> 1206  
<211> 319  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1206

gcagtcttat ggggtcaaggt gcgtcaagcc tccgatcatc tacgggtgacg tgagccgccc 60  
caaccccatg accgttttct ggctgaagac ggcgcagagc atgacgtctc gcccaatgaa 120  
ggggatgctg actggcccag tcacaatcct caactgggtcc ttcgtccgga atgaccagcc 180  
gagggttgag acttgctacc agatcgctct tgcgatcaag aaggaatcga ggactcgagg 240  
ctgggtggtat cagttaccaa ncgagagtgc ntgagagaag gtgcgtcgca gntgacnnat 300  
ctattgatgg tgtcatctc 319

<210> 1207  
<211> 299  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1207

aacccaaact cttgggcttg tcacgagtgc tggtttccct gctggaaagt acctctttgc 60  
tggtgttgtg gatggacgca acatctgggc tgatgatctt gctacatctc tcagcantct 120  
ccagtctctt gaggctgttg ttgggaagga caagcttgtc gtatcaactt cctgctcgct 180  
catgcacacc gctgtggatc ttgtgaacga gactaagctt gacagcgaga ttaagtcttg 240  
gcttgctttt gctgcccaga angttgttga gttgatgtct tgctaaaggc attgctggt 299

<210> 1208  
<211> 315  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1208

gctcgcctcat gcacaccgct gtggatcttg tgaacgagac taagcttgac agcgagatta 60  
antncttggc ctgnttttgct gcccagaagg ttgttgaggt tgatgctctt gctaaggcat 120  
tggctgggtca aaaggatgag gcttacttcg cagcaaatgc tgcngtcagg cctcgaggaa 180  
atcctcacc cgtgtgacca atgaagaagt ccagaaggct gntgctgctc tcaagggctc 240  
tgaccaccgc cgtgggacca acgttagtgc tagatggatg cccagcngtn agnagcttaa 300  
cctccccanc cttcc 315

<210> 1209

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1209

cccactcttt cgtgggnag gacaagcttg tcntatcaag ttcctggggg gctcatgcac 60  
accgntgtgg atcttgtgaa cgagactaat cttgacagcg agattaagtc ttggcttgct 120  
tttgctgccc agaaggttgt tgaggttgat gctcttgcta aggcattggc tggcaaaag 180  
gatgaggctt acttcgcagc aaatgctgct gctcaggcct cgaggaaatc tcaccccgtn 240  
tgaccaatga anaantccan aaggctgctg ctgctctcaa gggctctgac caccggcgtn 300  
ggaccaacgt tagtgctaga ttggatgccc acaaangaaa cttaacctcc cattcttcca 360  
ccacttcaat tgggttcgtn ccacaaacc gttgagctca agaagggtccg ccgtgagtac 420  
a 421

<210> 1210

<211> 261

<212> DNA

<213> Zea mays

<400> 1210

catcggcccc ggtgtctacg acatccactc cccaggatc ccgtcggccg aggagatcgc 60  
cgaccgcac gacaagatgc tggccgtgct ggacaccaac atcctctggg tgaacccga 120  
ctgcggcctc aagaccgcga agtacacgga ggtcaagccc gccctgacca acatggtctc 180  
cgctgctaag ctcatctgca cccagctcgc cagcgccaag tgagcacctt tttttgcctt 240  
tttcgtttcc gaggagggcg t 261

<210> 1211

<211> 239

<212> DNA

<213> Zea mays

<400> 1211

gggaaggaca agcttgctgt atcaacttcc tgctcgctca tgcacaccgc tgtggatctt 60

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gttggtgagg ttgatgctct tgctaaggca ttggctggtc aaaaggatga ggcttacttc 180

gcagcaaattg ctgctgctca ggcctcgagg aaatcctcac cccgtgtgac caatgaaga 239

<210> 1212

<211> 236

<212> DNA

<213> Zea mays

<400> 1212

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ggataccctc gcatggggcc caagagggag ctcaagtttg cacttgagtc tttctgggat 120

gggaagagca ccgctgagga tctggagaag gttgctaccg acctcagggc cagtatctgg 180

aagcagatgg ctgatgctgg gatcaagtac atccccagca acactttctc gtacta 236

<210> 1213

<211> 276

<212> DNA

<213> Zea mays

<400> 1213

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gttccaaagg aaagatggcg tcccatattg ttggataccc tcgcatgggc cccaagagag 120

agctcaagtt tgccttgagg tctttctggg atgggaagag cagcgccgat gatttagaga 180

aagttgcctc tgacctcagg tctagcatct ggaagcaaatt gtcagaagct gggatcaagt 240

acattcccag caacaccttc tcgtactatg accagg 276

<210> 1214

<211> 231

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <212> DNA  
 <213> Zea mays  
  
 <400> 1215  
  
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 ctgagtccta caagacccta acatctctga gcagtgtgac tgcttatggt tttgatcttg 180  
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 <211> 280  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1216  
  
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 gcacaccgct gtggatcttg tgaacgagac taagcttgac agcgagatta agtcttggct 240  
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 <210> 1217  
 <211> 283  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1217

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actgtccctg ctatggagat gaccaagtgg ttgacacca actaccactt tattgtccct 180
gaattggggc caaacaccaa gttctcctat gcttctcaca aggctgttaa cgaatataag 240
gaggctaggc gctcggtggt gatacgtgcc agtattgntg gac 283
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<210> 1218

<211> 337

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1218

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ancttgattc tgacaaattg gctgcattct ctgctgcata cgcagaactt gaatctgtac 180
tttctggatt gaatgtgctt gttgagactt actttgctga tgntcctgct gantcctaca 240
agaccctaac atctctgagc agtgtgactg cttatgggtt tgatctgtcc gtngaacca 300
aaccttgggc ttgtcacgag tgctggntcc ctgctgg 337
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<210> 1219

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1219

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agatcgcgga ccgctcaac aagatgctcg ccgtgctgga caccaacatc ctctgggtga 120
accctgactg cgggtctcaag acacgcaagt acacggaggt gaagcctgcc ctgaccaaca 180
tggtctccgc caccaagctc atccgcaccc agctcggcag cgcgaaatga gtcagatttg 240
gtagatccat ggtttggtga acacaaaagc cagcaggggtc atttgtttcg aataatttgg 300
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gtccttactc ctgttccatg gcgttaggtt aagcctcatt ggtgttggtg gggtagcggc 360  
gttacgtgtc cgtgttctaa agtttggaat gtgtgtttct cttttttggt ngggggttgn 420  
gtgccttttg gtatataaac agaaat 446

<210> 1220  
<211> 228  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1220

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tgacatgggt gagtacttcg gtgagcantt atctggtttt gcantcactg ccaacggntg 180  
ggtgcnatct ttatggatca cgttgtgtga agccacnntt atctatgg 228

<210> 1221  
<211> 232  
<212> DNA  
<213> Zea mays

<400> 1221

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gcgagattaa gtcttggtt gcttttgctg ccagaaggt tgttgaggt gatgctcttg 120  
ctaaggcatt ggctggtcaa aaggatgagg ctacttcgc agcaaagt gctgctcagg 180  
cctcgaggaa atcctcaccc cgtgtgacca atgaagaagt ccagaaggct gc 232

<210> 1222  
<211> 217  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1222

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gtctgccact gcgcaagtca gagcatgcat tctacctgga ctgggctgtc cactctttca 120  
gaatcacnaa ctgcggagtc caggacacca ccagatcca naccatattg tgctactcca 180



acttcaacga catcatccac tccatcatcg acatgga 217

<210> 1223

<211> 277

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1223

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aaagcccgcc aagggtgtgg agaagggatt ccctcttctt tcccttctta gcagcatcct 120

cccagtctac aaggaggtca ttgctgagtt gaaggcagct ggggcttcat ggattcagtt 180

tgatgagccc actcttgtcc tcgaccttga ttctgacaaa ttggctgcat tctctgctgc 240

atacgcagaa cttgaatctg tattntgant tnatggg 277

<210> 1224

<211> 206

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1224

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aagatccaag aggagcttga cattgatgtg cttgtgcatg gagagccaga gagaaatgac 120

atgggtgagt acttcggtga gcaattatct ggttttgcgt tcaactgcaa cggatgggtg 180

caatcctatg gntcacgctg tgtgac 206

<210> 1225

<211> 354

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1225

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tgcagctctta tgggtcaagg tngtcaagc ctgccgattc atctactgna acgtgtatgc 120

cgccaccaac nccatgaccg ttttctgggtc gnnnacggcg cagagcatga cgtctcgccc 180

aatgaatggg atgntgactn gncagtcac antcctcaac tngtcctncg tcggaatgac 240  
cagccgaggt ntganacttg ctaccagatc gctctngcga tnaagnnggn agtcgaggtc 300  
tcgacgtggn gtatcaggtg accaantcga cnagctgcat gagagagagc gcgc 354

<210> 1226

<211> 228

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1226

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cgtcaagcct ccgatcatct acgggtgacgt gagccgcccc aaccccatga ccgttttctg 120  
gtcgaagagg cgcagagcat gacgtctcgc ccaatgaagg ggatgctgac tggcccagtc 180  
acaatcctca actggtcctt cgtccggaat naccagccga ggttttat 228

<210> 1227

<211> 260

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1227

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cttgcaatca aaaaggaggt tgaggatctt gangctgctg gtaantcagg tgatccagat 120  
cgatgaggca gctctaaggg aggggtctgcc actacgcaag tcagagcatg cattctacct 180  
ggactgggct gtccactctt tcaggatcac caactgcgga gtccaggaca ccaccagat 240  
ccacaccac atgtgctact 260

<210> 1228

<211> 276

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1228

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actgtccctg ctatggagat gaccaagtgg tttgacacca actaccactt tattgtccct 180  
gaattggggcc caaacaccaa gttctcctat gcttctcana aggctgttaa ngaatataag 240  
aggctaaggc gctcgggtgtt aanaccggcc aatant 276

<210> 1229  
<211> 256  
<212> DNA  
<213> Zea mays

<400> 1229

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gagttgaagg cagctggggc ttcattggatt cagtttgatg agcccactct tgtcctcgac 180  
cttgattctg acaaattggc tgcattctct gctgcatacg cagaacttga atctgtactt 240  
tctggattga atgtgc 256

<210> 1230  
<211> 257  
<212> DNA  
<213> Zea mays

<400> 1230

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ttctggtcga agaggcacag agcatgacgt ctgcccaat gaaggggatg ctgactggcc 120  
cagtcacaat cctcaactgg tccttcgtcc ggaatgacca gccgagggtt gagacttgct 180  
accagatcgc tcttgcgata aagaaggaag tcgaggatct tgaggctggt ggtattcagg 240  
ttatccaaat cgacgag 257

<210> 1231  
<211> 344  
<212> DNA  
<213> Zea mays

<400> 1231

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tgagttgaag gcagctgggg cttcattgat tcagtttgat gagccactc ttgtcctcga 120

ccttgattct gacaaattgg ctgcattctc tgctgcatac gcagaacttg aatctgtact 180  
 ttctggattg aatgtgcttg ttgagactta ctttgctgat gttcctgctg agtcctacaa 240  
 gaccctaaca tccctgagca gtgtgactgc ttatggtttg acttgtccgt ggaacccaaa 300  
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<210> 1232  
 <211> 278  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1232

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 gggccagtat ctggaagcag atggnn gatg ctggggatca agtacatccc cagcaacact 180  
 ttctcgtact atgaccaggt ccttgacacc actgccatgc tcggcgctgt ccccgaaact 240  
 tactcatgga ctggaggaga gattggattt gacactac 278

<210> 1233  
 <211> 249  
 <212> DNA  
 <213> Zea mays

<400> 1233

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 aggcatggc tgggtcaaaag gatgaggctt actcgcagca aatgctgcag ctcaggcctc 180  
 gaggaaatcc tcaccccgctg tgaccaatga agaagtccag aaggctgctg ctgctctcaa 240  
 gggctctga 249

<210> 1234  
 <211> 295  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1234

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ccacgttcca aaggantgct ggcgtcccat attgttggat accntcgcat gggccccaag 120  
agagagctca agtttgcctt ggagtcctttc tgggatggga agagcagcgc cgatgattta 180  
gagaaagttg cctctgacct caggtctagc atctggacng ccnatgtcag angctgggnt 240  
cnagtacatt cccagcaaca ccttctcgta ctatgaccag gtccttgata ccagg 295

<210> 1235

<211> 267

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1235

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ctgggtgttgt ggatggacgc aacatctggg ctgatgatct tgctacatct ctcagcactc 120  
tccagtctct tgaggctgtt gttgggaagg acaagcttgt cgtatcaact tcctgctcgc 180  
tnntgcacac cgctgtggat cttgtgaacg agactaagct tgacagcgag attaagtctg 240  
gctgcttttg ctgcccagaa ggttggt 267

<210> 1236

<211> 292

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1236

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tgtggtctca agacacgcaa gtacacggag gtcaagcccg ccctgaccaa catggtctcg 180  
gccancaagc tcatccgcac ccagcttgcc aacgcgaaat gagtcgtttg atagctccat 240  
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<210> 1237

<211> 217

<212> DNA

<213> Zea mays

<223>        unsure at all n locations  
 <400>        1237

ccaagaanan cttgacattg atgtgcttgt gcatggcgag cctnagagaa acgatatggt    60  
 tgagtacttc ngtgagcagc tctccggttt tgcgttcact gccaatggct ggggtgcagtc   120  
 ttatgggtca aggtncgtca ngcctccgnt catctacggt gacgtgagcc gccccaaacc   180  
 catgaccgtn ttctggtcgn agactgcgca gagcatg                                217

<210>        1238  
 <211>        456  
 <212>        DNA  
 <213>        Zea mays

<223>        unsure at all n locations  
 <400>        1238

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 ngaggntatc gccgaccgca tcgacaagat gctggcggtg ctggacacca acatcctctg   120  
 ggtgaacccc gactgcggcc tcaagacccg caagtacacg gaggtcaagc ccgccctgac   180  
 caacatggtc tccgcgcgta agctcatccn caccagctc gccagcgcca agtgagcacc   240  
 ttttttttgc ctttttcggt tccgaggagg gcgtcgtcna ntgccaattt ggttncaata   300  
 aacagggctn tgcccgccgt tctgttgtag tccgtctgtg gttagggttag tagttatctt   360  
 gatctgcnn ncacgccggt acctntttac tactctctgt ttggtgggtt tctgaagcaa   420  
 gttgcccntt tacttgatn gtaaaaaccc aatngt                                456

<210>        1239  
 <211>        289  
 <212>        DNA  
 <213>        Zea mays

<223>        unsure at all n locations  
 <400>        1239

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 ataccctcnc atgggccccca agaggagct caagtttgca cttgagtctt tctgggatgg   120  
 gaagagcacc gctgaggatc tggagaagggt tgctaccgac ctcagggccca gtatctggaa   180  
 gcagatggct gatgctggga tcaagtacat cccagcaac atttctcgta ctatgaccag   240

tcttgacacc atgccatgtc ggcgctgtcc ccgaaggtag tcatggatg 289

<210> 1240  
 <211> 274  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1240

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 cagcatcctc ccagtctaca aggaggtcat tgctgagttg aaggcagctg gggcttcatg 180  
 gattcagttt gatgagccca ctcttgctct ngacctgaat tcggnacaaa tnggctgcat 240  
 tctcngcngc atangcngaa nttgaatctg tact 274

<210> 1241  
 <211> 268  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1241

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 ggataccctc gcatgggncc cnaganggag ctcaagtttg cacttgagtc tttctgggat 120  
 ggggnagagca acgctgagga tctggagaag gttgctaccg acntcagggc cagtatccgg 180  
 aagcanatgg cngatnctgg gatcaagtag atccccagca anacnttctc gnantatgac 240  
 caggctcttg naccatgccca tggctcgg 268

<210> 1242  
 <211> 260  
 <212> DNA  
 <213> Zea mays

<400> 1242

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 tgctggcggt gctggacacc aacatcctct ggggtgaaccc cgactgcggc ctcaagaccc 120  
 gcaagtacac ggagggtcaag cccgccctga ccaacatggt ctccgccgct aagctcatcc 180

gcacccagct cgccagcgcc aagtgagcac cttttttttg ccttttttcgt ttccgaggag 240  
ggcgtcgtcg atgccaattt 260

<210> 1243  
<211> 280  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1243

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gcacgcggccc cgggtgtctac gacatccact cccccaggat cccgtcggct gaggagatcg 120  
ccgaccgcat cgacaagatg ctggngtgct ggacaccaac atcctctggg tgaacccccga 180  
ctgcggcctc aagacccgca agtacacgga ggtcaagccc gccctgacca ncatggtctc 240  
ngccggtaag ctnatccgca cccagctcgc naggccaagt 280

<210> 1244  
<211> 305  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1244

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aacttgaatc tgtactttct ggattgaatg tgcttggtga gacttacttt gctgatgttc 120  
ctgctgagtc ctacaagacc ctaacanctc tgagcagtgt gactgctnat ggttttgatc 180  
ttgtccgtgg aacccaaact ctnggggctt gtcacgagtg ctgggtttcc ctgctggaaa 240  
gtacctcttt gctgggtgtg tggatggacn caacagctgg ggtngatgnt cttncnnacn 300  
tcgcc 305

<210> 1245  
<211> 198  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1245

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atgangggga tgctgactgg ccagtcaca atcctcaact ggtccttcgt ccggaatgac 120  
cagccgaggt ttgagacttg ctaccagatc gctcttgcca tcaagaagga agtcgaggat 180  
ctcgaggctg gtggtatt 198

<210> 1246  
<211> 297  
<212> DNA  
<213> Zea mays

<400> 1246

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gcatacgagc aacttgaatc tgtacttctg gattgaatgt gctgttgaga cttactttgc 180  
tgatgttcct gctgagtcct acaagacctt aacatctctg agcagtgatga ctgcctatgg 240  
ttttgatctt gtccgtggaa cccaaactct tgggcttgct acgagtgctg gtttccc 297

<210> 1247  
<211> 286  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1247

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gagaagctgc tctccgtggt ccgcgagggc gtcaagtaag gcgcgggcat cggccccggt 120  
gtctacgaca tccactcnnn caggatcccc tcggtgagg agatcgccga ccgcacgac 180  
aagatgtgng gtgctggana cnaacatcct ctnggtgaac cccgactgcg gcctcaagan 240  
ccgcaagtac acngaggtca aanccgngctg accaacangt ctccgt 286

<210> 1248  
<211> 343  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1248

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tgacgtctca gcccaatgaa nggggnnntg actggccaag tcacaatncc tcaactggtc 120  
cttcgtccgg aatgaccagc cgaggtttga gacttgctac cagatcgctc ttgcgatcaa 180  
gaaggaagtc gaggatctcg aggctggtgg tattcagggt atccaaatcg acgaggctgc 240  
actgagagaa gggctgccgc tccgcaaggc tgnagcatgc atcttacttg gatgggctgt 300  
tccattcctt cagaatcacc aatgcgaatc caggacacca ccc 343

<210> 1249  
<211> 210  
<212> DNA  
<213> Zea mays

<400> 1249

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ggatttcagg tgatccagat cgatgaggca gctctaaggg agggctctgcc actacgcaag 120  
tcagagcatg cattctacct ggactgggct gtccactctt tcaggatcac caactgcgga 180  
gtccaggaca ccaccagat ccacaccac 210

<210> 1250  
<211> 206  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1250

gcttttgctg ccagaagggt tgttgagggt gatgctcttg ctaaggcatt ggctgggtcaa 60  
aaggatgagg cttaacttcgc agcaaagtgc gcagctcagg cctcgaggaa atcctcacc 120  
cgtgtgacca atgaagaagt ccagaaggct gctgctgctc tcaagggctc tgaccaccgc 180  
cgtgcgacca acgttagtgc tagntt 206

<210> 1251  
<211> 223  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1251

gaccagccga ggtttgagac ttgctaccag atcgctcttg cgatnaagaa ggaagtcgag 60

gatcttgagg ctggtggtat tcaggttatc caaatcgacg aggctgcact gagagaagg 120  
 ntgccgctcc gcaaggctga tcatgcattc tacttggact gggctgtcca ntccttcagn 180  
 attaccaact gcgagatcca ggacaccacc cagatccaca ccc 223

<210> 1252  
 <211> 186  
 <212> DNA  
 <213> Zea mays

<400> 1252

acaaaccgtt gagctcagga ggggccgccg tgagtacaag gcaaaaaaga tctctgagga 60  
 ggaatacgtc actgccatca aggaggaaat caacaaggtc gttaagcttc aagaagagct 120  
 tgacattgat gtgcttgtgc atggcgagcc tgagagaaac gatatggttg agtacttcgg 180  
 tgagca 186

<210> 1253  
 <211> 238  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1253

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 ttgcnttgga gtactttctg ggatgggnag agcagcgccg aggatttgga gaangttgnc 120  
 actgacctga ggtctagcat ctggnagcaa atgtcagang ctgggatcaa gtacattccc 180  
 aggcaatcac cttctcgtac tacgaccagg ttcttgatac cacggccatg cttggcgc 238

<210> 1254  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1254

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 gcttcaggcc tcaaggagat catcgcccag ggtgacaaac gaggaggtcc agaaggctgc 120  
 agctgctttg aggggatctg accaccgccg ttctaccact gtttctgcta gattggatgc 180

tcagcagaan aagctcaacc ttctgtcct tcccacaacc acaattgggt cattccctca 240  
gactgtggaa tcaggagggt tcgccgtgaa tacaagg 277

<210> 1255  
<211> 287  
<212> DNA  
<213> Zea mays

<400> 1255

cctgagacag tcagacgtcc cgtgctcgtc atcaccaccc acatctcagt tcaccccggc 60  
gtcgtcctct tccccggcg ctactctccc gctccacgtt ccaaaggaaa gatggcgctc 120  
catattgttg gataccctcg catgggcccc aagagagagc tcaagtttgc cttggagtct 180  
ttctgggatg ggaagagcag cgccgatgat ttagagaaaag ttgcctctga cctcaggtct 240  
agcatctgga agcaaatgtc agaagctggg atcaagtaca ttcccag 287

<210> 1256  
<211> 219  
<212> DNA  
<213> Zea mays

<400> 1256

gggccaaaac accaagttct cctatgcttc tcacaaggct gttaacgaat ataaggaggc 60  
taaggcgctc ggtgttgata ccgtgccagt acttgttgga ccagtctcgt acctgttgct 120  
ctcaaagcct gccaaaggtg tggagaaggg attccctctt ctttcccttc ttagcagcat 180  
cctcccagtc tacaaggagg tcattgctga gttgaaggc 219

<210> 1257  
<211> 269  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1257

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gaagtcgagg atctcgaggc tgggtgtatt caggttatcc aaatcgacga ggctgcactg 120  
agagaagggc tgccgctccg caaggctgag catgcattct acttggaactg ggctgtccac 180

tccttcagaa tcaccaactg cggagatcca ggacaccacc catatccaaa cccanattgtg 240  
ctattcnanc ttnaacgaca tcatccact 269

<210> 1258  
<211> 213  
<212> DNA  
<213> Zea mays

<400> 1258

caacttcctg ctcgctcatg cacaccgctg tggatcttgt gaacgagact aagcttgaca 60  
gcgagattaa gtcttggtt gcttttgctg cccagaaggt tggtgagggt gatgctcttg 120  
ctaaggcatt ggctggtcaa aaggatgagg ctacttcgc agcaaattgt gctgctcagg 180  
cctcgaggaa atcctcaccc cgtgtgacca atg 213

<210> 1259  
<211> 269  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1259

atttggttgc cctggccggt acnagtccaa gaattcccgg gtccctcacct atcatcgccg 60  
ctgcgcgctc tcctccgctc ccgtcgtccg gaaagatggc gtcccacatt gttggatacc 120  
ctcgcattggg ccccaagagg gagctcaagt ttgcacttga gtctttcttg gatgggaaga 180  
gcaccgctga ggatctggag aagggttgcta ccgacctcag ggccagtatc tggaagcaga 240  
tggtgatgc tgggatcaag tacatcccc 269

<210> 1260  
<211> 266  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1260

catgacgtct cgcccaatga aggggatgct gnetggccca gtcacaatcc tcaactggtc 60  
cttcgtccgg aatgaccagc cgagggttga gacttgctac cagatcgctc ttgcatcaa 120  
gaaggaagtt cgaggatctt naggctggtg gtattcaggt tatccaaatc cgacgaggct 180

gcactgagna gaagggctgc cgctccgcaa ggccgagcat gccatctact tgnactgggc 240  
 tgtccactcc ttcagattac caactg 266

<210> 1261  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1261

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 gaggagatcg ccgaccgcat cgacaagatg ctggcggtgc tggacaccaa catcctctgg 120  
 gtgaaccccg actgcggcct caagacccgc aagtacacgg aggtcaagcc cgcttgacca 180  
 acatgggtctc cgccgctaag ctcatccgca cccagctcgc cagcgccaag tgagcacctt 240  
 atntttgcnt ntttngtttc cgaggagggc gtngtcgatg ccaattngng ttcaataaac 300  
 agggctgtgc ccgcccgttc tgtngactnc gctgtgggtt aagttagtan tttcttngat 360  
 ctgcnccca cgcggtacct ggtttactac tctctgtttg gtggttcttg aagcaagtta 420  
 cnnctgtac ttggatagaa aaa 443

<210> 1262  
 <211> 258  
 <212> DNA  
 <213> Zea mays

<400> 1262

ggcagctggg gcttcatgga ttcagtttga tgagcccact cttgtcctcg accttgattc 60  
 tgacaaattg gctgcattct ctgctgcata cgcagaactt gaatctgtac tttctggatt 120  
 gaatgtgctt gttgagactt actttgctga tgttcctgct gagtcctaca agaccctaac 180  
 atctctgagc agtgtgactg cttatggttt tgatcttgtc cgtggaaccc aaactcttgg 240  
 gcttgtcacg agtgcctg 258

<210> 1263  
 <211> 275  
 <212> DNA  
 <213> Zea mays

<400> 1263

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 tgacaaattg gctgcattct ctgctgcata cgcagaactt gaatctgtac tttctggatt 120  
 gaatgtgctt gttgagactt actttgctga tgttcctgct gagtcctaca agaccctaac 180  
 atctctgagc agtgtgactg cttatggttt tgatcttgtc cgtggaaccc aaactcttgg 240  
 gcttgtcacg agtgtgtggt tccctgctgg aaagt 275

<210> 1264  
 <211> 253  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1264

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 gatgctcgcc gtgctcgaca ccaacatcct ctgggtgaac cctgactgtg gtctcaagac 120  
 acgcaagtac acggagggtca agccccccct gaccaacatg gtctcggcca ccaagctcgc 180  
 ncgcacccag cttgccagcg cgaaatgagg tcgtttgata gctccatggt ctgatagcgc 240  
 ggaatgagcc agt 253

<210> 1265  
 <211> 211  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1265

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 tgcccagcag aagaagctta acctcccat ccttcccacc actacaatcg gttcgttccc 120  
 acaaaccgtt gagctcagga gggtcgcgcg tgagtacaag gcaaaaaaga tctctgagga 180  
 agaatacgtc actggccatc naggaggaaa t 211

<210> 1266  
 <211> 297  
 <212> DNA  
 <213> Zea mays

<400> 1266

gctgagttga aggcagctgg ggcttcatgg attcagtttg atgagccac tcttgcctc 60  
gaccttgatt ctgacaaatt ggctgcattc tctgctgcat acgcagaact tgaatctgta 120  
ctttctggat tgaatgtgct gttgagactt actttgctga tgttcctgct gagtcctaca 180  
agaccctaac atctctgagc agtgtgactg cctatggttt tgatcttgct cgtggaaccc 240  
aaactcttgg gcttgtcacg agtgctgggt tccctgctgg aaagtactct tgctgggt 297

<210> 1267  
<211> 267  
<212> DNA  
<213> Zea mays

<400> 1267

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gcttgtcacg agtgctgggt tccctgctgg aaagtacctc tttgctgggt ttgtggatgg 120  
acgcaacatc tgggctgatg atcttgctac atctctcagc actctccagt ctcttgaggg 180  
tgttgttggg aaggacaagc ttgtcgtatc aacttcctgc tcgctcatgc acaccgctgt 240  
ggatcttgtg aacgagacta agcttga 267

<210> 1268  
<211> 224  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1268

ccgctgcgcc gtctccnccg cncctgctgt ccggancnga tggcgtccca cattgttga 60  
tacnctcgca tggnccccaa nagggagctc aagtttgac ttnagtcttt cngggatngg 120  
aagancacng ctgaggatcn cgagaaggtn gcnaccgacc tcagggccag tatctggaag 180  
cagatngctg annctgggat caantacatn cccagcaaca cttt 224

<210> 1269  
<211> 212  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1269



nnnnnnnnnn nnnnnngaca tggacgcgga cgtgatcacc atcgagaact cgcggtccga 60  
cgagaagctg ctctccgtgt tccgtgaggg tgtcaagtac ggcgcgggca tcggccccgg 120  
tgtctacgac atccactccc ccaggatccc gtcggccgag gagatcgccg accgcatcga 180  
caagatgctg gccgtgctgg acaccaacat ca 212

<210> 1270

<211> 292

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1270

cgagangctg ctctccgtgt tcngcgnngg cgtcaagtac ggngcgggcn tcggcctcgg 60  
tgtctacgac atcnnetccc ccaggntncc gtcnctgng gagatcgccg accgcatcga 120  
caagatgctg gcggtgctgg acaccaacat cctctgggtg aaccccgact cggcctcaag 180  
acccgcaagt acacgngngt caagcccgcc ctgaccaaca tggntcgcg gctnagtcat 240  
ccgacccagc tcgnnagccg cgangtgagc acttttttgc cttttcgttc cg 292

<210> 1271

<211> 287

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1271

angcaacatc tgggctgatg atcttgctac atctctcagc actctccagt ctcttgaggc 60  
tgttggtggg aaggacaagc ttgtcgtatc aacttcctgc tcgctcatgc acaccgctgt 120  
ggatcttggtg aacgagacta agcttgacag cgagattaag tcttggttg cttttgctgc 180  
ccagaagggtt gttgaggtga tgctcntgct aaggcattgg ctgggtcaaaa ggatgaggnt 240  
acttcgcagc aaatgcngca gctcaggncn cgaggaaatc ctcaccc 287

<210> 1272

<211> 265

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1272

tcaccaccca catctcagtt caccgccggcg tcgtcctctt ccccgggcgc tactctcng 60  
ctccacgttc caaaggaaag atggcgtaen catattgntg gataccctcg catgggcccc 120  
aagagagagc tcaagtttgc cttggagtct ttctgggatg ggaagagcag cgccgatgat 180  
ttagagaaaag ttgcctctga cctcaggtct agcatctgga agcanatgtc agaagctggg 240  
atcaagtaca ttcccagcaa cacct 265

<210> 1273

<211> 223

<212> DNA

<213> Zea mays

<400> 1273

tagcagcatc ctcccagtct acaaggaggt cattgctgag ttgaaggcag ctggggcttc 60  
atggattcag tttgatgagc ccactcttgt cctcgacctt gattctgaca aattggctgc 120  
attctctgct gcatacgagc aacttgaatc tgtactttct ggattgaatg tgcttgttga 180  
gacttacttt gctgatgttc ctgctgagtc ctacaagacc cta 223

<210> 1274

<211> 261

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1274

ctgggatggg aagagcaccg ctgaggatct ggagaagggt gctaccgacc tacagggccca 60  
gtatctggaa gcagatggct gangctggga tcaagtacat cccagcaac actttctcgt 120  
actatgacca ggtccttgac accactgcca tgctcggcgc tgtccccgaa cgttactaca 180  
tggactggag gagagattgg atttgacacc tacttctcca tggccagggg caagccactg 240  
ttcctgctat ggagatgacc a 261

<210> 1275

<211> 283

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1275

tggtgttgtg gatggacgca acatctgggc tgatgatctt gctacatctc tcagcantnt 60  
ccaggctnnt gagngctggt gttgggaatg acaagcttgt cgtatcaact tcctgctcgc 120  
tcatgcacac cgctgtggat cttgtgaacg agactaagct tgacagcgag attaagtctt 180  
ggcttgcttt tgctgcccag aaggttgttg aggttgatgc nctgctaagg catggctggt 240  
caaaaggatg aggcttactt cgcagcaaat gctgcagctc agg 283

<210> 1276

<211> 185

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1276

gcgtcccaca ttgttgata ccnacgcat gggccccaag agggagctac aagtttgcac 60  
ttgagtcttn ctgggatggg aagagcaccg ctgaggatct ggagaagggt gctaccgacc 120  
tcagggccag tatctggnag cagatggctg atgctgggat caagtacatc cccagcaaca 180  
ctttc 185

<210> 1277

<211> 278

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1277

tcagtttgat gagcccactc ttgtcctcga cttgattct gacanattgg ctgcaanctc 60  
tgctgcatac gcagaacttg aatctgtact ttctggattg aatgtgcttg ttgagactta 120  
ctttgctgat gttcctgctg agtcctacaa gaccctaaca tccctgagca gtgtgactgc 180  
ttatggtttt gatcttgtcc gtggaacca aactcttggg cttgtcacga gtgctggttt 240  
ccctgctgga aagtactctt tgctgggtgtt gtggatga 278

<210> 1278

<211> 276

<212> DNA

<213> Zea mays

<223>        unsure at all n locations  
<400>        1278

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ccaggatccc gtcggccgag gagatcgccg accgcatcga caagatgctg gccgtgctgg   60
acaccaacat cctctgggtg aaccccgact gcggcctcaa gacccgcaag tacacggagg  120
tcaagcccg cctgacaaaa atgggtccccg ctganaagct cattcgccacc cagctcgcca  180
gcgccaagtg agcacctttt ttggcctttt tcgtttccga ggaggcgctc gtcgatgcca  240
tttgtttcca ataaacaggg ctccccccct gtgccg                               276
```

<210>        1279  
<211>        267  
<212>        DNA  
<213>        Zea mays

<400>        1279

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ggggcttcat ggattcagtt tgatgagccc actcttgtcc tcgaccttga ttctgacaaa   60
ttggctgcat tctctgctgc atacgcagaa cttgaatctg tactttctgg attgaatgtg  120
cttgttgaga cttactttgc tgatgttcct gctgagtcct acaagaccct aacatccctg  180
agcagtgtga ctgcttatgg ttttgatctt gtccgtggaa cccaaactct tgggcttgtc  240
acgagtgtctg gtttccctgc tggaaaag                               267
```

<210>        1280  
<211>        271  
<212>        DNA  
<213>        Zea mays

<223>        unsure at all n locations  
<400>        1280

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ctccatgacc gttttctggt cgaagacggc gcagagcatg acgtctcgcc caatgaaggg   60
gatgctgact ggcccagtca caatcctcaa ctggtcttcg tccggaatga ccagccgagg  120
tttganactt gctaccagat cgctcttgcg atcaagaagg aagtcgagga tctcgaggct  180
ggtggtatca gttatccaaa tcgacgaggc tgcgatgagag aagggtgccg ctccgcaagg  240
ctgagcatgc attctattgg actgggtgtc a                               271
```

<210>        1281  
<211>        188  
<212>        DNA

<213> Zea mays

<400> 1281

gctgggtttcc ctgctggaaa gtacctcttt gctgggtgttg tggatggacg caacatctgg 60  
gctgatgatac ttgctacatc tctcagcaact ctccagtctc ttgaggctgt tgttgggaag 120  
gacaagcttg tcgtatcaac ttctgtctcg ctcatgcaca ccgctgtgga tcttgtgaac 180  
gagactaa 188

<210> 1282

<211> 284

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1282

gtcgaagagg gcgcagagca tgacgtctcg cccaatgaag gggatgctga ctggcncagt 60  
cacaatcctc aactggtcct tcgtccggaa tgaccagccg aggtttgaga cttgctacca 120  
gatcgtcttt gcgatcaaga aggaagtcca ggatctcgag gctgggtgga ttcagggttat 180  
ccaanttcga cgaggctgca ctgagagaag ggctgccgct ccgnaggntn agnatgattc 240  
naantgggan nggggcggcc nntcttnnag aatgnnaggn ggng 284

<210> 1283

<211> 194

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1283

cacaaccaca attggtncat tccctcagac tgtggaactc aggagggttc gccgtgaata 60  
caaggcaaaa agatcaccga ggacgatacn tcagtgccat caaggaanaa tcagcaaggt 120  
tgtcaagatc caagaggagc ttgacattga tgtgcttgtg catggagagc cagagagana 180  
tgacatgggtt gagt 194

<210> 1284

<211> 271

<212> DNA

<213> Zea mays

<400> 1284

cggtgttgat accgtgccag tacttggttg accagtctcg tacctgttgc tctcaaagcc 60  
cgccaagggt gtggagaagg gattccctct tctttccctt cttagcagca tcctcccagt 120  
ctaaaggagg tcattgctga gttgaaggca gctggggctt catggattca gtttgatgag 180  
cccatcttgt cctcgacctt gattctgaca aattggctgc attctctgct gcatacgag 240  
aacttgaatc tgtatttctg gattgaatgt g 271

<210> 1285

<211> 209

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1285

gtgctcaag cctccgatca tctacggtga cgtgagccgc cccaaccca tgaccgtttt 60  
ctggtcgaag acgggcacag agcatgacgt ctgcccgaat gaaagggang ctgactggcc 120  
cagtcacaat cctcaactgg tccttcgtcc ggaatgacca gccgaggttt gagacttgta 180  
ccagatcgct cttgctcaa gaaggaagt 209

<210> 1286

<211> 180

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1286

cgcagagcat gacgtctcgc ccaatgaagg ggatgctgac tggcccagtc acaatcctca 60  
actggtcctt cgtccggaat gaccagccga ggtttgagac ttgctaccag atcgctcttg 120  
cgatcaagac ggaantcgag gntctcnagg ctngtggtat tcagggttat caaatcgacg 180

<210> 1287

<211> 200

<212> DNA

<213> Zea mays

<400> 1287

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acattgttgg ataccctcgc atgggccccca agaggagct caagtttgca cttgagtctt 120  
tctgggatgg gaagagcacc gctgaggatc tggagaaggt tgctaccgac ctcagggccca 180  
gtatctggaa gcagatggct 200

<210> 1288

<211> 324

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1288

aatggcgagc ctgacanaca cgatatggtt gantacttcg gtgagcagct ctccggtttt 60  
gcnttcactg ccaatggctg ggtgcagtct tatgggtcaa ggtgctcaa gcctccgac 120  
atctacggtg acgtgagccg ccccaacccc atgacgtttt ctggtcgaag acggcgcaga 180  
gcatgacgtc tcgcncaatg aaggggatgc tgactggccc agtcacaatc ntcaactggt 240  
cttcgtcgga acgaccagcc gaggtttgag attgctacca gatcgtcttt gcgatnaaga 300  
angaatcgan gatctgaagc tggc 324

<210> 1289

<211> 181

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1289

aggaaatcct caccctgtgt gnaccaatga agaagtccag aaggctgctg ctgctctcaa 60  
gggctctgac caccgccgtg cgaccaacgt tagtgctaga ttggatgcc agcagaagaa 120  
gcttaacctc cccatccttc ccaccactac aatcggttcg ttcccacaaa ccgttgagct 180  
c 181

<210> 1290

<211> 275

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1290

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ctgggtgaac cctgactgtg gtctcaagac acgcaagtac acggagggtca agcccgccct 120  
gaccaacatg gtctcggcca ccaagctcat ccgcacccag cttgccagcg cgaaatgagt 180  
cgtttgatag ctccatggtc tgatagcgcg gaatgagcca gtttgttttg aataatttgg 240  
gtgttacccc ctgttccatg gtgtnagtgt taggt 275

<210> 1291  
<211> 202  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1291

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tttgctgatg ttncgtctga gtcctacaag accctaacat ccctgagcag tgtgactgct 120  
tatggttttn atcttgtccg tggaacccaa actcttgggc ttgtcacgag tgctggtttc 180  
cctgctggaa agtacctctt tg 202

<210> 1292  
<211> 181  
<212> DNA  
<213> Zea mays

<400> 1292

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cactgccatc aaggaggaaa tcaacaaggt cgттаagctc caagaagagc ttgaacattg 120  
atgtgcttgt gctggcgagc ctgagagaaa cgatatgggt gagtacttcg gtgagcagct 180  
c 181

<210> 1293  
<211> 242  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1293

ccagagcgct actcttggac tggaggcgag attggcttga gcacctactt ctctatggcc 60  
aggggaaatg ccactgtccc tgccatggag atgaccaagt ggtttgatac aaactaccac 120



tttattgtcc ctgaacttgg cccaagcacc aagttcacat acgctnctca caaggctgtt 180  
tctgagtacn ngngggcaaa ggggtcggcn ttgatncnat tcccatgctg ttggacanng 240  
gc 242

<210> 1294  
<211> 176  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<400> 1294

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cctcaactgg tccttcgtcc ggaatgacca gccgaggttt gagacttgct accagatngc 120  
tcttgcatg aagaaggaag tcgaggatct cgaggctggt ggtattcagg ttatcc 176

<210> 1295  
<211> 228  
<212> DNA  
<213> Zea mays  
<400> 1295

aaggggtgtg agaagggatt ccctcttctt tcccttctta gcagcatcct ccagttctac 60  
aaggagggtca ttgctgagtt gaaggcagct ggggcttcat ggattcagtt tgatgagccc 120  
actcttgtcc tcgaccttga ttctgacaaa ttggctgcat tctctgctgc atacgcagaa 180  
cttgaatctg tactttctgg atgaatgtgc ttgttgagac tactttgc 228

<210> 1296  
<211> 312  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<400> 1296

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ctgcgtcccc cggcgtact cccccgtcc acggtccaag gaaagatggc gtcccatatt 120  
gttgataacc ctgcgatggg cccaagagg gagctcaagt ttgccttgga gtctttctgg 180  
gatgggaaga gcagcgccga ggatttgag aaagttgcca ctgacctgag gtctagcatc 240

tggaagcaaa tgtcagaagt gggatcaagt aattcccagc aatacttctc gtatacgnc 300  
aggttttgat ac 312

<210> 1297  
<211> 270  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1297

gccaaaggtg tggagaaggg attccctctt ctttccctnc ttagcagcat cctcccagtc 60  
tacaangagg tcattgctga gttgaaggca gctggggctt tcatggattc agtttngatg 120  
agcccaactct tgtcctcgac cttgaatnct gaacaaattg gctgcattct ctgctggcnt 180  
acgcagaact ngaatctgta ctntctggat tgaatgtgct tgttgagact tactttgctg 240  
atgttctctgc tgagtcctac aagaccctaa 270

<210> 1298  
<211> 161  
<212> DNA  
<213> Zea mays

<400> 1298

gggcgcgggg catcggcccc ggtgtctacg acatccactc ccccaggatc ccgtcggccg 60  
aggagatcgc cgaccgcacg gacaagatgc tggccgtgct ggacaccaac atcctctggg 120  
tgaaccccga ctgcggcctc aagacccgca agtacaggag g 161

<210> 1299  
<211> 213  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1299

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ctcaggcctc gaggaaatcc tcaccccgctg tgaccaatga agaagtccag aaggctgctg 180  
ctgtctcaag ggctctgacc accgccgtgg gac 213

<210> 1300

<211> 194

<212> DNA

<213> Zea mays

<400> 1300

cacctatcat cgccgctgcg ccgtctcctc cgctcccgtc gtccggaaaag atggcgtccc 60

acattgttgg ataccctcgc atgggccccca agagggagct caagtttgca cttgagtctt 120

tctgggatgg gaagagcacc gctgaggatc tggagaaggt tgctaccgac ctcagggcca 180

gtatctggaa gaaa 194

<210> 1301

<211> 291

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1301

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gtcacgagtg ctggtttccc tgctggaaaag tacctctnng ctggtgttgt ggatggacgc 120

aacatctggg ctgatgatct tgctacatct ctcagcactc tccagtctct tgaggctgtt 180

gttgggaagg acaagcttgt cgtatcaact tcctgctcgc tcatgcacac cgctgtggga 240

gctgtggaac cgagantagc ttganaangg ggttaagtnt nggcttgntn t 291

<210> 1302

<211> 152

<212> DNA

<213> Zea mays

<400> 1302

tgatgtgctt gtgcatggcg agcctgagag aaacgatatg gttgagtact tcggtgagca 60

gctctccggt tttgcgttca ctgccaatgg ctgggtgcag tcttatgggt caaggtgcgt 120

caagcctccg atcatctacg gtgacgtgag cc 152

<210> 1303

<211> 152

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1303

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ncccacatgt gctactccaa cttcaacgac atcatccact cgatcatcga catggacgcg 120  
gacgtgatca ccatngagaa ctcgngggnc gg 152

<210> 1304

<211> 468

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1304

anaacaacnc tctctttnta ataccngtnc caatacttgt tggaccaatc tcntacctgg 60  
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gcatcctccc antctacaag gaggtcattg ctganttnaa ngcanctggg gcttnatgga 180  
ttcagtttga tganccact cttgtcctcg accttgattc tgacaaattg gctgcattct 240  
cttgctgcat atgcanaact tgaatctgta ctttcttgga ttnaatgtgc ttgttnagac 300  
ttactttgct tatgttcctg ctgaantcct acaaaaaccc taacatccct taaacanngt 360  
gaactgctta ttggttttta atcttttccc gnggaaccca aaactnttgg gcttntcacn 420  
aatgctttgg ttttccttgc ttgaaaaaan cnnnctttgt tggggtgg 468

<210> 1305

<211> 292

<212> DNA

<213> Zea mays

<400> 1305

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ctccagtctc ttgaggctgt tggtgggaag gacaagcttg tccgtatcaa cttcctgctc 120  
gctcatgcac accgctgtgg atcttgtgaa cgagactaag cttgacagcg agattaagtc 180  
ttggctgctt ttgctgcca gaaggttgtt gaggttgatg ctctcgctaa ggcattggct 240  
gggtcaaaagg atgaggctta cttcgagca aatgctgctg ctcaggcctc ga 292

<210> 1306

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1306

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gtgaaccccg actgnggnct naaaaacccg caagtacacg gaggtcaaag ccccgncctg 180

accaacatgg tcttccgncc gctaagctca tccgcaccca gctngccagc gccaaagtga 240

cacctttttt ttgccttttt cgtttccgag gaagggcgtn gtcgatgcca atttggtttc 300

aataaacang gctgtgcccc ccggtctggt gnaactccgct gngggtaagg taagaagttt 360

cttgancttg ncccangccg gnaactggta ctactntntg gtngnggttc tgag 414

<210> 1307

<211> 163

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1307

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tggataccct cgcatgggcc ccaagagaga gctcaagttt gccttggagt ctttctggga 120

tgggaagagc agcgccgatg atttagagaa agntgnntcg gac 163

<210> 1308

<211> 233

<212> DNA

<213> Zea mays

<400> 1308

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cctcgtcccc cggcgtact ccccgctcc acggtccaag gaaagatggc gtcccatatt 120

gttgataacc ctgcgatggg cccaagagg gagctcaagt ttgccttgga gtctttctgg 180

gatgggaaga gcagcgccga ggatttggag aaagttgcca ctgacctgag gtc 233

<210> 1309  
 <211> 225  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1309  
  
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 ttgttgata ccctcgcatt ggcccaga gggagctcaa gtttgccttg gagtctttct 180  
 gggatgggaa gagcagcgcc gaggatttgg agaaagttgc cactg 225

<210> 1310  
 <211> 303  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1310  
  
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 ccactctcg tccccggcg ctactcccc gctccacggc ccaaggaaag atggcgccc 120  
 atattgttg ataccctcg atgggcccc agaggagct caagtttgcc ttggagtctt 180  
 tctgggatgg gaagagcagc gccgaggatt ggagaaagtt gccatgacct gangttancc 240  
 attggaagca aatgtcagaa ntgggatcaa gtacatcca gaatacttct cgtatagaca 300  
 ggt 303

<210> 1311  
 <211> 293  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1311  
  
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 aggcagctgg ggcttcattg attcagtttg atgagccac tcttgccgc gaccttgatt 180  
 ctgacaaatt ggctgcatc tctgctgat acgcagaact tgaatctgta ctttctggat 240

tgaatgtgct gttgagacta cttgctgatg ttcctgctga gtcctacaag acc 293

<210> 1312

<211> 311

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1312

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aaggggtgct gactggccca gtcacaatcc ncaactggtc cttcgtccgg aatgaccagc 120

cgaggtttga gacttgctac cagatcgtct tgcgatcaag aaggaagtcg aggatcttga 180

ggttgtgtat tcaggttatc caaatcgaga gctgcatgag agaggggtgc gtcctcgcaag 240

ctaagentca tccacttggn nggtttccat tctcggattn cangnagatc aaggnacacc 300

ngntcacanc c 311

<210> 1313

<211> 121

<212> DNA

<213> Zea mays

<400> 1313

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gaggcttact tcgcagcaaa tgctgctgct caggcctcga ggaaatcctc acccctgtg 120

a 121

<210> 1314

<211> 222

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1314

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cctcgtcccc cggcgtact cccccgtnc acggtccaag gaaagatggc gtcccatatt 120

gttggatacc ctcgcatggg cccaagagg gagctcaagt ttgccttgga gtctttctgg 180

gaggggaaga gcagtgccga ggattnggag aaattgcnac tg 222

<210> 1315  
 <211> 190  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1315  
  
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 gaccctaaca ncnngagca gtgtgactgc ntatggtttt gatcttgtcc gtggaacca 180  
 nactctnggg 190  
  
 <210> 1316  
 <211> 120  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1316  
  
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 gtctttctgg gatgggaaga acaccgtga agatctggag aagggttgcta ccgacctcag 120  
  
 <210> 1317  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1317  
  
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 aatgnagaag tccaaaatgc tgcngntgcn ctcaanggct atgancancg ccgngggacc 120  
 aacgttagtg ctagattgga tgnccagcag aagaagctt 159  
  
 <210> 1318  
 <211> 288  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1318  
  
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 cagcgcgaaa tgaggtcggt tgatagctcc atggtctgat agcgcggaat gagccagttg 180  
 ttttgaataa tttgggtggt accccctggt ccatggtggt agtggttaggt tagcctctca 240  
 ttggtgggat acgccgttac aagatgtggt ctaagtttgg agtgtgtg 288

<210> 1319

<211> 268

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1319

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 tgctacggtg acgnagccg ccnaacccc atgaccgttt tctcggtcga agacggcaca 180  
 gagcatgacc gtctcgccca atgaagggga tgctgactgg cccagtcaca atcctncaac 240  
 tggtccttn cgtncggaaa tganccac 268

<210> 1320

<211> 118

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1320

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 tgctcgngt gctcgacacc aacatcctct ggggtgaacc tgactgcggt ctcaagac 118

<210> 1321

<211> 151

<212> DNA

<213> Zea mays

<400> 1321

gaagcaaagt tcagaagctg ggatcaagta cattcccagc aataccttct cgtactacga 60  
 ccaggttctt gataccacgg ccatgcttgg cgctgtcca gagcgctact cttggactgg 120  
 aggtgagatt ggctgagcac tacttctcta t 151

<210> 1322

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1322

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tgctcgccgt gctcgacacc aacatcctct ggggtgaaccc tgactgtggt ctcaagacac 120

gcaagtcacg gaggtcaagc ccgccctgac caacatggtc tnggccacca agcttattcc 180

gcacccaact tgnccagcgc gaaatgaagt cgtttgatag ctcatgggtct gatagcgccg 240

gaatgagcca agtggtttgn ataatttggg tgttaccccc tgntccatgg ngttagtgg 300

aaggtagcct ntnattggtg ggataccccc gttccagant nggtctaagg ttggantggg 360

tggttntctt tnggctatgg ttcttggggg atttgtgtgt ccttgggtat taacnggaat 420

tgaataccca gtcttt 436

<210> 1323

<211> 118

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1323

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tcaagtacgn cncgggcacn ngcaccggtg tctacnacat ccaactcccc angatccc 118

<210> 1324

<211> 324

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1324

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ctccccagg atcccgtcgg ctgaggagtc gccgaccgca tcgacaagat gtggcgtgct 120

ggacacaaca tctctgggtg aaccccgact gcggtcgaag accgcaatac acgagtcaag 180

ccgcctgac caacatggtc tccgccgcta agtcatccgc accagtcgcc agcgccaagt 240

gagcactttt tttgcttttc gttcgaggag ggtgtgatgc aaattgttcn ataaaanggt 300  
 gtgccgccgt tctgttgat cggt 324

<210> 1325  
 <211> 287  
 <212> DNA  
 <213> Zea mays

<400> 1325

ctctgggtga accccgactg cggcctcaag acccgcaagt acacggaggt caagcccgcc 60  
 ctgaccaaca tgggtctccgc cgctaagctc atccgcaccc agctcgccag cgccaagtga 120  
 gcaccttttt tttgcctttt tcgtttccga ggagggcgtc gtcgatgcca atttgtttcc 180  
 aataaacagg gctgtgccgc cgttctgttg tactccgtct gtggttaggt tagtagtttt 240  
 cttgatctcg ccccccacgcg gtacctgttt tactactctc tgtttg 287

<210> 1326  
 <211> 131  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1326

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 tcccanaaan cgttgagctc caggaggggc cgccgtgagt ncaaggcaaa aaagatctct 120  
 gaggaggaat a 131

<210> 1327  
 <211> 155  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1327

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 tacttcggtg agcagctcct ccggttttgc gttcaactgcc aatggctggg tgnagtctta 120  
 tgggtcaang tgcgtcaagc ctccgatcat ctacg 155

<210> 1328  
 <211> 264  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1328  
  
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 tgcacttgag tctttctggg atgggaagag caccgtgagg attggagaag gttgtacgac 180  
 ctcaggcagt attggaacag atgntgatnt ggataagtac atcccacaac actttgtnta 240  
 tacagtcttg cacatgcant gggt 264

<210> 1329  
 <211> 270  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1329  
  
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 agcagcatcc gccagtgct anaaggaggt cattgctgag ttgaaggcag ctggnngcctt 180  
 catggattca ggttgatgag cccactctng tcctcgnacc tggatgctga caaattgggc 240  
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<210> 1330  
 <211> 268  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1330  
  
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 ngaggtcant gctgagggtga aggagctgg ggcttcatgg attcagtttg atganccac 120  
 tcttgtcctc gaccttgatt ctgacaaatt ggcctgcatt ctctgctgca tacgcagaac 180  
 ttgaatctgt actttctgga ttgantgtgc tgtngagann nactttgcng gtgttcctgc 240

tgantctaca agaccntnta tccntggg 268

<210> 1331  
<211> 291  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1331

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ttttttttgc ctttttcgtt tccgaggagg ggtcgtcgat gccaatattgt ttccaataaa 180  
cagggctgtg nccgccgttc tgttgactc cgtctgtggt taggttagta nttttcatga 240  
tctcgccnca cgcggtacct gntttactat ctctgtttgg nggttnctga g 291

<210> 1332  
<211> 128  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1332

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tggccgtccc acattgttgg ataccctcgc atgggccccca agaggagct caagtttgca 120  
cttgagtc 128

<210> 1333  
<211> 286  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1333

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acattgntgg atancctcgc atgggccccca agaggagct caagtttgca cttgagtctt 120  
tctgggatgg gnagagnacc gctgnaggat ctgganaagg ttgctaccga cntcaagggc 180  
cagtanctng angccngatg ggntgatgct gggatcaagt acatccncca gcaacaacct 240  
tgctctactt atgacaaggc cttgacaca ctgccatgct cgcggt 286

<210> 1334  
 <211> 156  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1334

ctacgacatc cactctcttag gattccctcc acagaggaga tcgcagaccg cgtcgagaag 60  
 atgctcgccg tgctnccgaca ccaacatcct ctgggtgaac cctgactgtg gtctcaagac 120  
 acgcaagtac acggaggtca agcccgccct gaacaa 156

<210> 1335  
 <211> 185  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1335

ttnangttga tgctcttgct aaggcattgg ctggtcaaaa ggntgaggct tattcncagc 60  
 aaatgctgag ctcaggcctc gaggaatcct caccocgtgt gaaccaatgn agaagtccag 120  
 aaggctgctg ctgctctcaa gggctctgac caccgccgtg naaccaacgt tatgctagat 180  
 tggat 185

<210> 1336  
 <211> 139  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1336

ggaggttgag gatcttgagg ctgctggtat tcaggatgac cagnttgatg aggcagctct 60  
 aaggganngt ngccactgcg caagtcccag agcatgcatt ctacctggac tgnngctgtcc 120  
 actctttcag antcaccaa 139

<210> 1337  
 <211> 114  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<400> 1337

cgaggatctt gaggctgggtg gtattcaggt tatccaaatc gacgaggctg cactgagaga 60  
agggctgccg ctccgcaagg ctgaacatgc atctaactgg actgggctgt ncca 114

<210> 1338  
<211> 254  
<212> DNA  
<213> Zea mays

<400> 1338

acggagggtca agcccgccct gaccaacatg gtctccgctg ctaagctcat tcgcacccag 60  
ctcgccagcg ccaagtgagc accttttttt gccttttttcg tttccgagga gggcgctcgtc 120  
gatgccaaatt tgtttccaat aaacagggtc cccccctgt gcccgccgtt ctgttgtgtc 180  
ccgtctgtgg ttaggttact agttttcttg atctcgcccc cacgcggtac ctgttttact 240  
atctgtttgg tgggt 254

<210> 1339  
<211> 289  
<212> DNA  
<213> Zea mays

<400> 1339

cggagggtcaa gcccgcctg accaacatgg tctccgcgc taagctcatc cgcacccagc 60  
tcgccagcgc caagtgagca cttttttttt gccttttttcg tttccgagga gggcgctcgtc 120  
gatgccaaatt tgtttccaat aaacagggtc gtgccgcgt tctgttgtac tccgtctgtg 180  
gttaggttag tagttttctt gatctcgccc ccacgcggtta cctgtttttac tactctctgt 240  
ttggtggttt ctgaggaagt tgcccgtgta ttgtatcgta aaaaccgag 289

<210> 1340  
<211> 252  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1340

cccgactgcg gcctacaaga cccgcaanta cacggaggtc aagcccgccc tgaccaacat 60

ggtctccgcn gctaagctca tcngcacnca gctcgccagc gccaaagtng cacttttttt 120  
 ttgccttttt cgtttccgan gagggcntcg tngatgccaa ttgttttcna ntaancaggg 180  
 ntgtncagc cgttctgttg nactccgtct gtggttaggt tagtagtttt cttgatctcg 240  
 cccccaagcg nt 252

<210> 1341  
 <211> 79  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 1341

ctgcgaggatc caggacacca cccagatcca naccacatg tgtacncaa cttcaacgac 60  
 ntentcnant ccatnanng 79

<210> 1342  
 <211> 260  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 1342

cggagggtcaa gcccgccctg accaacaatgg tctccgctgn taagctcatt cgcacccagc 60  
 tcgncagcgc caagtgcgca cctttttttg cctttttcgt ttccgaggag ggcgtcgctcg 120  
 atgccaatgt gtttccaata aacagggctc cccccctgtg cccgngttc tgttgtgctc 180  
 cgtctgtggt taggttacta gttttcttga tctcgcccc acgcggtacc tgttttacta 240  
 tctgtttggt ggttttctgag 260

<210> 1343  
 <211> 124  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 1343

caagggtctt gcaccaccgc cgtgcgacca acgttagtgc tagattggat gccacgcaga 60  
 agangttaac ctccccatcc ttcccaccan tacaatcggg ttcgttccca caaacggttn 120  
 agct 124



<210> 1344  
 <211> 505  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1344

```

agnttggttnn agggggggng atnnaaaggc natctcgtac cgggccggaa ttcccgggtc   60
gacccacgcg tccggctgaa ctagagtcgg cattctctgg attgaatgtg cttattgaga  120
catactntgc ngacattcct gctgagtcct acaagaccct cacgtcattg agtggtgtga  180
ctgcttacgg ttttgatctt atccgtggag ccaagaccct tgatcttatc aggagcagct  240
tcccctctgg gaagtacctc ttcgctggtg ttgtggatgg acgcaacatt tgggctgatg  300
atcttgctgc atctcttagc actcttcagt ctcttgaggc cgttgctggc aaggacaaac  360
ttgtggtgtc aacctcctgc tcaactgatgc acaccgccgt gatcttgtaa atgagactaa  420
actggatgaa tgaagattaa gtcattggctt gcatttgctg cccaaaagggt tgtcgagggt  480
aatgcccttg cgaagctttg gcaag                                     505

```

<210> 1345  
 <211> 300  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1345

```

aaacttgctg tgtcaacntc ctgctcaactg atgcanaccg ctgttgacct tgtaaattgag   60
actaagctgg atgatgagat taagtcatgg cttgcatttg ctgccccaaa gggtgttgag  120
gttaatgccc ttgccaaggc nttggcaggg caaaaggatg aggtctactt tgcagccaat  180
gctgctgctc aggcctcaag gagatcatcg ccagggtga caaacganga ggtccagaag  240
gctgcagctg ctttganggg atctgaccac cgccgttcta ccaactgtntc tgctagattg  300

```

<210> 1346  
 <211> 290  
 <212> DNA  
 <213> Zea mays

<400> 1346

ggacgcaaca tttgggctga tgatcttgct gcatctctta gcactcttca ttctcttgag 60  
 gctgttgctg gcaaggacaa acttgtggtg tcaacctcct gctcactgat gcacaccgct 120  
 gttgaccttg taaatgagac taagctggat gatgagatta agtcatggct tgcatttgct 180  
 gcccaaaagg ttgttgaggt taatgccctt gccaaaggctt tggcaggcca aaaggatgag 240  
 gtctactttg cagccaatgc tgctgctcag gcctcaagga gatcatcgcc 290

<210> 1347  
 <211> 259  
 <212> DNA  
 <213> Zea mays

<400> 1347

aacctcctgc tcaactgatgc acaccgctgt tgaccttgta aatgagacta agctggatga 60  
 tgagattaag tcatggcttg catttgctgc ccaaaagggt gttgaggta atgcccttgct 120  
 caaggctttg gcaggccaaa aggatgaggt ctactttgca gccaatgctg ctgctcaggc 180  
 ctcaaggaga tcatcgccca gggtgacaaa cgaggaggtc cagaaggctg cagctgcttt 240  
 gaggggatct gaccaccgc 259

<210> 1348  
 <211> 296  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1348

tgcttatcga gacatacttc gctgatattc ctgctgagtc ctacaagacc ctcacatcat 60  
 tgagtgggtg gactgcttac ggtttcgatc ttatccgtgg agccaagacc cttgatctta 120  
 tcaggagcag cttccccctct gggaagtacc tcttcgctgg tgttgtagat ggacgcaaca 180  
 tttgggctga tgatcttgct gcatctctta gcactcttca ttctcttgan gctgttgctg 240  
 gcaaggacaa acttgtggtg tcaacctcct gctcactgat gcacaccgct gttgac 296

<210> 1349  
 <211> 272  
 <212> DNA  
 <213> Zea mays

<400> 1349

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cctgctgagt cctacaagac cctcacgtca ttgagtgggtg tgactgctta cggttttgat 60
cttatccgtg gagccaagac ccttgatctt atcaggagca gcttcccctc tgggaagtac 120
ctcttcgctg gtgtttgtgga tggacgcaac atttgggctg atgatcttgc tgcattcttt 180
agcactcttc agtctcttga ggccgttgct ggcaaggaca aacttgtgggt gtcaacctcc 240
tgctcactga tgcacaccgc tgttgatctt gt 272
```

<210> 1350

<211> 265

<212> DNA

<213> Zea mays

<400> 1350

```
acgtcattga gtgggtgtgac tgcttacgggt tttgatctta tccgtggagc caagaccctt 60
gatcttatca ggagcagctt cccctctggg aagtacctct tcgctgggtgt tgtggatgga 120
cgcaacattt gggctgatga tcttgctgca tctcttagca ctcttcagtc tcttgaggcc 180
gttgctggca aggacaaact tgtgggtgtca acctcctgct cactgatgca caccgctggt 240
gatcttgctca atgaaaactaa gctgg 265
```

<210> 1351

<211> 238

<212> DNA

<213> Zea mays

<400> 1351

```
gtagatggac gcaacatttg ggctgatgat cttgctgcat ctcttagcac tcttcattct 60
cttgaggctg ttgctggcaa ggacaaactt gtgggtgtcaa cctcctgctc actgatgcac 120
accgctgttg accttgtaaa tgagactaag ctggatgatg agattaagtc atggcttgca 180
tttgctgccc aaaaggttgt tgagggttaat gcccttgcca aggctttggc aggccaaa 238
```

<210> 1352

<211> 226

<212> DNA

<213> Zea mays

<400> 1352

gatcttgctg catctcttag cactcttcag tctcttgagg ccgttgctgg caaggacaaa 60  
 cttgtggtgt caacctcctg ctcaactgat cacaccgctg ttgatcttgt caatgaaact 120  
 aagctggatg atgagattaa gtcattggctt gcatttgctg cccaaaagggt tgtcgagggtt 180  
 aatgcccttg cgaaggcttt ggcaggccaa aaggatgagg cttact 226

<210> 1353

<211> 248

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1353

cctgctgagt cctacaagac cctcaactca gggantngtg tgactgctta cggttttgat 60  
 cttatccgtg gagccaagac ccttgatctt atcaggagca gcttcccctc tgggaagtac 120  
 ctcttcgctg gtgttggtga tggacgcaac atttgggctg atgatcttgc tgcactctctt 180  
 agcactcttc agtctcttga ggccgttgct ggcaaggaca aacttggtgt gtcaacctcc 240  
 tgctcatg 248

<210> 1354

<211> 203

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1354

cggacgnttg gcgcgagtgc tccctcctct gngccatgg cgctctctgt ggagangacc 60  
 tcgtctggan cngagtacaa gttcaaggct tctcncangc ggacttcggc cgcctcnaga 120  
 ttgagctncc cnagttcgaa atgcccgncc tcatgncctnc nccnengatt nccgnccttn 180  
 aaancttnnn nagecgaaaa ttc 203

<210> 1355

<211> 96

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1355

ttgggcttna aaactnacct ngntttaage gcattaccat taaaccccaa acnnancgct 60

tggtgtttcc ccagacnaaa actgngatan anntgc

96

<210> 1356

<211> 518

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1356

aagntctntn nttaaggagg naaatnnaat tnttgtcccg gtccggaatt cccgggtcga 60  
cccacgcgtc cgcnnacgcg tncgctnacn cgtccgcaca ngcgtcngcn canncgttcg 120  
cccacnacgg ncgatnnttc natttccca tctcgtcana ttcaattcgc cgagttcttc 180  
ctctctctgc tcgncatggc gctctatgtg ganaanacct cgtcatggac gggagtacaa 240  
ggtcaaggat ctatagcang cngacttagh tcgccttgan attgatctgg ccnaggncga 300  
aatgcncgna ctcatnggnt gccncgcca gtttggcccg ncnagccct ttggcgntgc 360  
taggatctng gnntctcttt acatgaccat tnacacnggn gaagtgattg agacnnttac 420  
cnggctcgtt gccgaggtnc ngtggtgatc ntncacatc ttattnacac angaccacgc 480  
ttnaancggn attggtncgc ganttggtg canaaatt 518

<210> 1357

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1357

cggcaagatc cccgacccgg agtccaccga caacgctgag ttcaagateg tgctcacnat 60  
catccgcgac gggctcaagg ctgaccccaa gaagtaccgc aagatgaagg agaggcttgt 120  
cggcgtctct gaggagacca ccacgggtgt caagaggctc taccagatgc aggagaccgg 180  
cgccctcttc ttccctgcc aatacgtcaa cgattccgtc accaagagca agtttgacaa 240  
cctgtatggt tgccgccact cgctccctga tggctctgatg agggccactg acgttatgat 300  
cgccggaaag gttgccgtgg tctgcggata cggatgatgc ggcaagggtt gtgctgctgc 360  
ctcaagcagg ctggtgcccg tgtcattgtg accgagatcg accccatctg tgcccttcaa 420  
gctctgatgg anggtcttta ngctctt 447

<210> 1358  
 <211> 515  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1358

```

gnnnagnnnn nnnannnttt gnangggggg gggaagagan attttancgg tccggattcc 60
cgggtcgacc cacgcgtccg ccatcatccg cgacgggctc aaggctgacc ccaagaagta 120
ccgcaagatg aaggagaggc ttgtcggcgt ctctgaggag accaccacgg gtgtcaagag 180
gctctaccag atgcaggaga cgggcgccct cctcttcctt gccattaacg tcaacgattc 240
cgtcaccaag agcaagtttg acaacctgta tggttgccgc cactcgctcc ctgatgggtc 300
gatgagggcc actgacgtta tgatcgccgg taaggttgct gtggtctgcg gatacgggtg 360
tgtcggcaag ggttgtgctg ctgccctcaa gcaggctggt gcccggtgca ttgtgaccga 420
gatcgacccc atctgtgccc tccaggctct gatggaaggg tcttcaggtc cttcccttgg 480
aagacgttgt ctctgaactg acatcttcgt gacca 515

```

<210> 1359  
 <211> 530  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1359

```

ggnnnagggt gntttngtcc naanntntnt ttnncttctg ccngtaccgg tccggattcc 60
cgggtcgacc cacgcgtccg cccacgcgtc cgtgggtgac cacatgagga agatgaagaa 120
caatgccatt gtctgcaaca ttggccactt tgacaatgaa attgatatgc tcggccttga 180
gacctaccct ggcgtaagc gcataccat caagccccag actgaccgct ggggtgtccc 240
cgagaccaac actggcatca ttgtccttgc tgagggtcgc ctgatgaacc ttgggtgtgc 300
tactggccat cctagctttg tcatgtcctg ctcatcact aaccagggtc ttgccaact 360
tgaactgtgg aaggagaaga gctctggcaa gtatgagaag aagggtgatg tgctcccaa 420
gcaccttgat gagaagggtg ctgctctcca cttgggcaag cttggtgcc aactgaccaa 480
gctcaccaag tctnagccga ctacatnanc gtgcccacg agggtcctac 530

```

<210> 1360  
 <211> 501  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1360

```

ggnnngnnngn aattctaach tncngcagcc tgcanaagtc canggtccac ccacncgtcg   60
ncgaggagga gtacgagaag accggcaaga tccccgaccc ggagtccacc gacaacgcga  120
gttcaagatc gtgctcacca tcatccgcga cggggtcaag gctgacccca agaagtacgc  180
aagatgaagg agaggcttgt cggcgtctct gaggagacca ccacgggtgt caagagctct  240
accagatgca ggagaccggc gccctcctct tccctgcat taacgtcaac gattcgtcac  300
caagagcaag tttgacaacc tgtatgggtg ccgccactca ctccctgatg gtctatgagg  360
gccaccgacg ttatgatcgc cggtaagggt gccgtggtct gcggatacgg tgagttggca  420
agggttgtgc cgctgcactc aaancangct gggtgcccg gtcaantgtg acgaagattt  480
aaccaatct gcgncctcca a                                           501

```

<210> 1361  
 <211> 473  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1361

```

cgccgnaag gttgctgtgg tctgcggata cggatgatgc ggcaagggtt gtgctgctgc   60
cctcaagcag gctgngcccc gtgtcattgt gaccgagatc gaccccatct gtgccctcca  120
ngctctgatg gagggctctt angtccttcc cttggaggac gttgtctctg aagctgacat  180
cttcgtgacc accactggca acaaggatat catnatgat gaccacatga ggaagatgaa  240
gaacaatgcc attgtctgca acattggcca ctttgacaat gaaattgata tgctcggnc  300
tnanacctac cctgncgtca agcgcatnac catcaagccc cagactgacn cgctggntgg  360
nccccgagac caacactggg catcattgtc cttgctgaag gtcggctgat naaccttgng  420
tgttctactg ggcatcctan cttttgncat gtctgggtcat ttactaaacc aag      473

```

<210> 1362  
 <211> 524  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1362

```

gnnnnnngggn ggngaattgtc tnccttngtcg tgccgggtcca gcgatacagg ggccccggac   60
ncgtccggga ncnatntccc catctcccag atccaattcg cgagttctcc ctctcttgcc   120
gccatggcgc tctcngtgga gaagacctcg tctggacggg agtacanggt caaggatctc   180
tcgcaggcgg acttcggccg cctcgagatt gagctggccg aggtcgaaat gcccggcctc   240
atggcgtgcc gcgccgagtt cggcccgtcc aagcccttcg ccggcgctag gatctcgggg   300
tctctccaca tgaccatcca ngaccgccgt cctcatcgag accctcaccg cgctcggcgc   360
cgangtcgcg tggtgctcct gcaacatctt ctccacgcag gaccacgccg ccgcgcgcat   420
cgcgcgcgac tcggccgccg tgttcgcttg gaanggggaa accctcgang agtactggtg   480
gtgcancgaa cgctgcctcg actggggggcg angcgggccg cccc                               524

```

<210> 1363  
 <211> 478  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1363

```

gnnnnnnngna acttaagtng cagggccggt cangaataac gggncgaccc acgcgtccgt   60
tccatttccc catctcccag atccaattcg cgagttctcc ctctcttgcc gccatggcct   120
ctctgtggag aagacctcgt ctggacggga gtacaaggtc aaggatctct cgcaggcgac   180
ttcggccgcc tcgagattga gctggccgag gtcgaaatgc ccggcctcat ggcgtgcgcg   240
ccgagttcgg ccgctcgaag cccttcgctg gcgctaggat ctcggggtct ctccaatgac   300
catccagacc gccgtcctca tcgagaccct caccgcgtc ggcgccgang tccgtggtgc   360
tcttgcaaca tcttctccac gcaggaccac gccgccgccg ccatcgcgcg cgatcggccg   420
ccgtgttcgc ctggaagggg gaagacctcg aggagtactg gtggtgcacc gacgtgc     478

```

<210> 1364  
 <211> 528



<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 1364

gnnnngnnnnng nnnnnnnaag gtnnntgttn ngnaaggagt tttatggnat actcgtccgg 60  
 anttcccggg tcgacccacg cgtccgcccc atctcccaga tccaattcgc gagttctttt 120  
 tcctctgccc ccatggcgct ctctgtggag aagacctcgt ctggacggga gtacaaggtc 180  
 aaggatctct cgcaggcgga cttcggccgc ctcgagattg agctggccga ggtcgaaatg 240  
 cccggcctca tggcgtgccg cgccgagttc ggcccgtcca agcccttcgc cggcgctagg 300  
 atctcggggg ctctccacat gaccatccag accgccgtcc tcatcgagac cctcaccgcg 360  
 ctcggcgccc aggtccgctg gtgctcctgc aacatcttct ccacgcagga ccacgcccgc 420  
 gccgccatcg cgcgcgactc ggccgcccgtg ttgcgctgga agggggagac cctcgaggag 480  
 tactggtggt gcacccgagc gctgnctnga ctggggcnag gcgggccc 528

<210> 1365  
 <211> 354  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 1365

cgtgccgcgc cgagttcggc ccgtccaagc ccttcgccgg cgctaggatc tcggggtctc 60  
 tccacatgac catccagacc gccgtcctca tcgagaccct caccgcgctc ggcgcgcagg 120  
 tccgctggtg ctctgcaac atcttctcca cgcaggacca cgccgccgcc gccatcgcg 180  
 gcgactcggc cgccgtgttc gcctggaagg gggagaccct cgaggagtac tgggtggtgca 240  
 ccgagcgctg cctcgactgg ggcgaggcgg gcggccccga cctcatcgtc gacgacggcg 300  
 gcgacgccac gctgctcatc cacgagggtg tcaaggccga ggaggattac nana 354

<210> 1366  
 <211> 476  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 1366

ggggngnaa cttcanntcc cagnngccgg tcaagaatta acgggtcgac gcnccgctcc 60  
 ggctcaaggc tgacccaag aagtaccgca agatgaagga gaggcttgtc ggcgtctctg 120  
 aggagaccac cacgggtgtc aagaggctct accagatgca ggagaccggc gccctcctct 180  
 tccctgccat taacgtcaac gattccgtca ccaagagcaa gtttgacaac ctgtatgggt 240  
 gccgccactc gctccctgat ggtctgatga gggccactga cgttatgatc gccggaaagg 300  
 ttgccgtggg ctgcccgtac ggtgatgtcg gcaaggggtg tgctgctgcc ctcaagcagg 360  
 ctggtgcccc tgctattgtg accgagatcg accccatctg tgccctccag gctctgaatg 420  
 ganggtcttc aagtccttc cttggaggac gttgtctcct gaagctgnca tcttng 476

<210> 1367

<211> 468

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1367

atcatgggtg accacatgag gaagatgaag aacaatgcca ttgtctgcaa cattggccac 60  
 ttgacaatg aaattgatat gctcggcctt gagacctacc ctggcgtcaa gcgcatacc 120  
 atcaagcccc agactgaccg ctgggtgttc cccgagacca aactggcat cattgtcctt 180  
 gctgagggtc gcctgatgaa ccttgggtgt gctactggcc atcctagctt tgtcatgtcc 240  
 tgctcattca ctaaccaggc cattgcccac cttgaactgt ggaaggagaa gagctctggc 300  
 aagtatgaga agaagggtga tgtgcttccc aagcaccttg atgagaaagg tgctgctctc 360  
 acttggggca agctttggtg ccaagcttac caaacttaac caagtcttaa ggccgactac 420  
 attaaccgtg cccgatcgaa gggtccttac aagcctgccc actnaccg 468

<210> 1368

<211> 484

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1368

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 caaggctgac cccaagaagt accgcaagat gaaggagagg cttgtcggcg tctctgagga 120

gaccaccacg ggtgtcaaga ggctctacca gatgcaggag accggcgccc tcctcttccc 180  
 tgccattaac gtcaacgatt ccgtcaccaa gagcaagttt gacaacctgt atggttgccg 240  
 ccactcgtc cctgatggtc tgatgagggc cactgacgtt atgatcgccg gaaaggttgc 300  
 cgtgggtctgc ggatacgggtg atgtcggcaa gggttgtgct gctgccctca agcaggctgg 360  
 tgcccgtgtc attgtgaccg agatcgacce catctgtgcc tccanggtc tgaatggaag 420  
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 acaa 484

<210> 1369  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 1369

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 accttgggtg tgctactggc catcctagct ttgtcatgtc ctgctcattc actaaccagg 180  
 tcattgcca acttgaactg tggaaggaga agagctctgg caagtatgag aagaagggtg 240  
 atgtgctccc caagcacctt gatgagaagg ttgctgctct ccacttgggc aagcttgggtg 300  
 ccaagctgac caagctcacc aagtctcagg ccgactacat cagcgtgccg atcgagggtc 360  
 cctacaagcc tgccactacc ggtactaggc aagccaggca cacggcttgc agctna 416

<210> 1370  
 <211> 452  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 1370

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 actgaccgct ggggtgttccc cgagaccaac actggcatca ttgtccttgc tgagggtcgc 120  
 ctgatgaacc ttgggtgtgc tactggccat cctagctttg tcatgtcctg ctcatcact 180  
 aaccagggtca ttgcccaact tgaactgtgg aaggagaaga gctctggcaa gtatgagaag 240

aagggtgatg tgctcccaaa gcaccttgat gagaagggtg ctgctctcca ctggggcaaa 300  
gcttggtgcc aagctgacca agctcaccaa gtcttaagcc gactacatca gcgtgccgat 360  
cganggtccc tacaagcctg ccactaccgg tactangcaa gccagcacac ggcttgacgc 420  
ttactcggcc cggtgtgtgc tatgaagttc ct 452

<210> 1371  
<211> 481  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<400> 1371

gcaagatgaa ggagaggctt gtcggcgtct ctgaggagac caccacgggt gtcaagaggn 60  
nctaccagat gcaggagacc ggcgccctcc tnttcctgc cattaacgtc aacgattccg 120  
tcaccaagag caagtttgac aacctgtatg gntgccgcca ctgctccct gatggtctga 180  
tgagggccac tgacgttatg atcgccggtg aggntgctgn ggtctgcgga tacggngatg 240  
tcggcaaggg ttgngctgct gccctcaagc aggctggtgc ccgtgtcatt gggaccgaga 300  
tcgaccccat ctgngccctc caaggctctg atggagggnc ttcaggnctt tcccttgag 360  
gacgnngctn tgaaactgac atcttcggga ccaccactgg caacaaggat atcatcangg 420  
gtgaccacat gaaggaagat gaagaacaaa gccaanngcn gggaacaatn ggccaanttg 480  
a 481

<210> 1372  
<211> 445  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<400> 1372

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catcttctcc acgcaggacc acgcgcgcgc cgccatcgcg cgcgactcgg ccgccgtggt 120  
cgcttgaag ggggagaccc ttgaggagta ctggtggtgc accgagcgt gcctcgactg 180  
gggcgaggcg ggcggccccg acctcatcgt cgacgacggc ggcgacgcca cgctgctcat 240  
ccacgagggt gtcaaggccg aggaggacta cgagaagacc ggcaagatcc ccgatccgga 300

gtcaccgaca acgctgagtt caagatcgtg ctnaccatca ttccgcgaan ggctnaaagn 360  
 ttaccccaag aagtcccgga aaggataaag aaaagcttgt cggcgtnttt taagagacca 420  
 cacnggtgtn aaaaggnttt acaga 445

<210> 1373  
 <211> 512  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1373

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 ccacgcgtcc gccacgcgt ccgtcacgc gttcgccan ncntccagat ncaattcgcg 120  
 agttctgggn tgctctgccg ccattggcgt ctctgtggag aagacctcgt ctggacggga 180  
 gtacaaggtc aaggatctct cgcaggcgga cttcggtcgc ctcgagattg agctggccga 240  
 ggtcgaaatg cccggcctca tggcgtgccg cgccgagttc ggcccgtcca agcccttcgc 300  
 cggcgctagg atctcggggg ctcttcacat gaccatccag accgccgtcc tcacgcagac 360  
 cctcaccgcg ctcggcgccg aggtccgctg gtgctcctgc aacatcttct ncacgcagga 420  
 ccacgcgcgc ggccggcatcg ngcgcgactc ggnccggcgtg ttgcgctgga agggggagac 480  
 cctttganga gtactggtgg tncaccnaac cg 512

<210> 1374  
 <211> 523  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1374

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 nccccgctcg acccangenn tncanntnt ggagggtctt naggtcctnc ncttgagga 120  
 cgttgtctnn gnagctgaen gnttcgtgac caccactggc aacaaggata tcatcatggt 180  
 tgaccacatg aggaagatga agaacaatgc cattgtctgc aacattggcc actttgacaa 240  
 tgaaattgat atgctcggcc ttgagaccta ccctggcgtc aagcgcatna ccatcaagcc 300  
 ccagactgac cgctgggtgt tccccgagac caacactggc atcattgtcc ttgctgaggg 360

tcgcctgatg aaccttgggt gtgctactgg ccatacctagc tttgtcatgt cctgctcatt 420  
 cactaaccag gtcattgccc aacttgaact gtggaaggag aagagctctg gcaagtatga 480  
 gaaagaangt gtatgtgctt cccaacacct ttgatgagaa ggt 523

<210> 1375  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 1375

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 cctcgtctgg acnggagtag aaggtcaagg atctctcgca ggcggacttc ggccgcctcg 120  
 agattgagct ggccgaggtc gaaatgcccg gcctcatggc gtgccgcgcc gagttcggcc 180  
 cgtccaagcc cttcgccggc gctaggatct cggggctctct ccacatgacc atccagaccg 240  
 ccgtcctcat cgagaccctc accgcgctcg gcncccgagg tccgctggtg ctcttgcaac 300  
 atcttctnca cgcaggacca cnccttcgnc ngcatcgcg cgcactcgnc cgccgtgttc 360  
 gcctggaaag ggggagnccc tcnaggagta ctggtggttc accnagccgc ttgccttgnc 420  
 tggggccnag gcngncggnc c 441

<210> 1376  
 <211> 488  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 1376

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 cacgcgtccg cggacgcgtg ggcccgttcc atttcccat ctcccagatc caattcgcag 120  
 ttctccctcc tctgccgcca tggcgctctc tgtggagaag acctcgtctg gacgggatac 180  
 aaggtcaagg atctctcgca ggcggacttc ggccgcctcg agattgagct ggccgagtcg 240  
 aaatgcccgg cctcatggcg tgccgcgccg agttcggccc gtccaagccc ttcgcggcgc 300  
 taggatctcg ggggtctctc acatgaccat ccagaccgcc gtctcatcg agacctcacc 360  
 gcgctcggcg ccgaggtccg ctggtgctcc tgcaacatct tctccacgca aggccacgcc 420

gccgccgcca tcgcgcgcga ctcgncgcc gtgttcgcct ggaaggggga gactcgaagg 480  
attatggg 488

<210> 1377  
<211> 325  
<212> DNA  
<213> Zea mays  
  
<400> 1377

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tgtcaagagg ctctaccaga tgcaggagac cggcgccctc ctcttccctg ccattaacgt 120  
caacgattcc gtcaccaaga gcaagtttga caacctgtat ggttgccgcc actcactccc 180  
tgatggtctg atgagggcca ccgacgttat gatcgccggt aaggttgccg tggctctgcgg 240  
atacggtgat gttggcaagg gttgtgccgc tgcactcaag caggctggtg cccgtgtcat 300  
tgtgaccgag atcgacccca tctgc 325

<210> 1378  
<211> 325  
<212> DNA  
<213> Zea mays  
  
<400> 1378

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aggaagatga agaacaatgc cattgtctgc aacattggcc actttgacaa tgaaattgat 120  
atgctcggcc ttgagaccta ccctggcgtc aagcgcacat ccatcaagcc ccagactgac 180  
cgctgggtgt tccccgagac caacactggc atcattgtcc ttgctgaggg tcgcctgatg 240  
aaccttgggt gtgctactgg ccacccatgc tttgtcatgt cctgctcatt cactaaccag 300  
gtcattgccc aacttgaact gtgga 325

<210> 1379  
<211> 370  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1379

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cgacggcggc gacgcancgc tgctacatcc acgaggggtgt caaggaccga ggaggattac 120  
gagaagaccg gcaagatccc cgacccggag tccaccgaca acgctgagtt caagatcgtg 180  
ctcaccatca tccgcgacgg gctcaaggct gacccaaga agtntcgcaa gatgaaggag 240  
aggcttgtcg gcgtctctga ggagaccacc acgggtgtca agaggctcta ccagatgcag 300  
gagaccggcg ccctcctctt ccctgccatt aacgtcaaga ttccgtcacc aagagcaatt 360  
tgacaacctg 370

<210> 1380  
<211> 329  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<400> 1380

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ctgacgttat gatcgccgga aagggtgccg tggctctgcg atacggtgat gtcggcaagg 120  
gttgtgctgc tgccctcaag caggctggtg cccgtgtcat tgtgaccgag atcgacccca 180  
tctgtgccct ccaggctctg atggagggtc ttcaggctct tcccttgag gacgttgtct 240  
ctgaagctga catcttcgtg accaccactg gcaacaagga tatcatcatg gttgaccaca 300  
tgangaagat gaagaacaat gccattgtc 329

<210> 1381  
<211> 346  
<212> DNA  
<213> Zea mays  
<400> 1381

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taacgtcaac gattccgtca ccaagagcaa gtttgacaac ctgtatggtt gccgccactc 120  
actccctgat ggtctgatga gggccaccga cgttatgata gccggtaagg ttgccgtggt 180  
ctgcggatac ggtgatgttg gcaaggggtg tgccgctgca ctcaagcagg ctggtgcccg 240  
tgtcatgtga ccgagatcga ccccatctgc gccctccagg ctctgatgga gggctctcag 300  
tccttcctt ggaggacgtt gtctcggaag ctgacatctt cgtgac 346